

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. U-49986		
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A		
2. NAME OF OPERATOR Samedan Oil Corporation (303) 534-0677			7. UNIT AGREEMENT NAME N/A		
3. ADDRESS OF OPERATOR 1616 Glenarm Pl., Suite 2550, Denver, Co. 80202			8. FARM OR LEASE NAME Recapture Federal		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 780' FSL & 2100' FEL (SWSE) At proposed prod. zone Same			9. WELL NO. 29-34		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 3 air miles E of Blanding, Utah			10. FIELD AND POOL OR WILDCAT Wildcat		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 780'		16. NO. OF ACRES IN LEASE 720		17. NO. OF ACRES ASSIGNED TO THIS WELL 40	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A		19. PROPOSED DEPTH 6,805'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6,003' ungraded ground				22. APPROX. DATE WORK WILL START* Sept. 15, 1987	

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

See PAGES 2-4 for casing, cement, and pressure control information.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 9-4-87
BY: John R. Bays
WELL SPACING: PLG-3-2

RECEIVED
[AUG 13 1987]
DIVISION OF OIL
GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Brian Wood TITLE Consultant DATE 8-28-87

(This space for Federal or State office use)

PERMIT NO. 43-037-31340 APPROVAL DATE _____

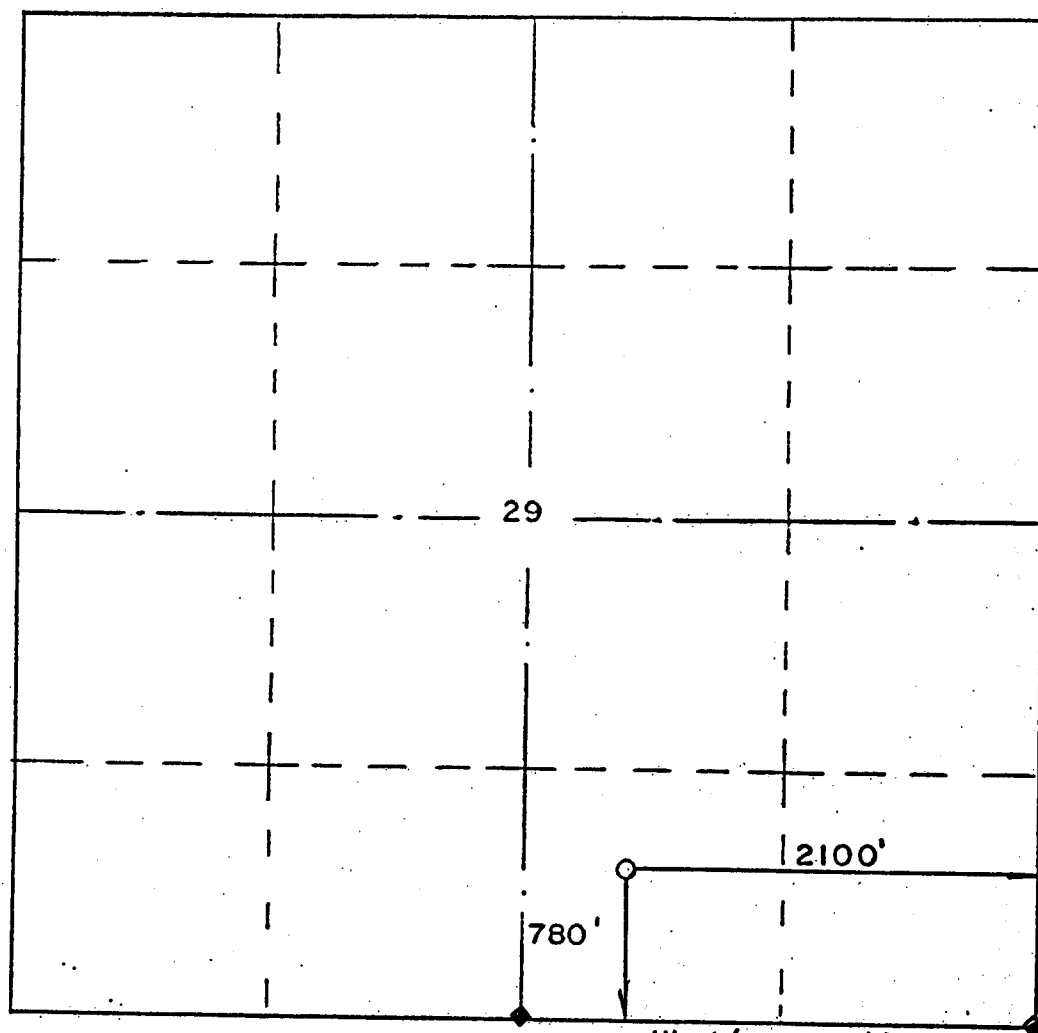
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

cc: Brune (3), MDO (3), SJRA (1), UDOGM (2)

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

WELL LOCATION AND ACREAGE DEDICATION PLAT



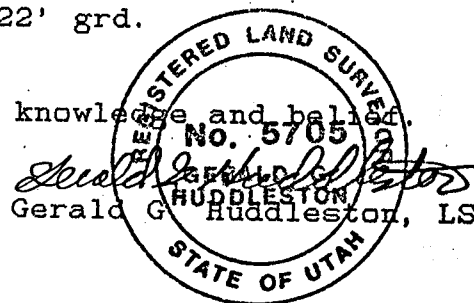
WELL LOCATION DESCRIPTION:

West (assumed)

SAMEDAN OIL CORP., Recapture Federal 29-34
 780' FSL & 2100' FEL
 Section 29, T.36 S., R.23 E., SLM
 San Juan County, UT
 6003' ground elevation
 Alternate: 660' FSL & 1980' FEL, 6022' grd.

The above plat is true and correct to my knowledge and belief.

19 August 1987



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

STATE OFFICE: Salt Lake City, Utah
SERIAL NO.: U-49986

and hereby designates

NAME: Samedan Oil Corporation
ADDRESS: 1616 Glenarm Place - Suite 2550
Denver, Colorado 80202

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160) with respect to (describe acreage to which this designation is applicable):

Township 36 South, Range 23 East, SLM

Section 28: W/2NW/4
Section 29: All

San Juan County, Utah

Bond coverage under 43 CFR 3104 for lease activities conducted by the above named designated operator is under Bond Number 4149383.

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, stipulations, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the authorized officer of any change in the designated operator.

TXP OPERATING COMPANY, a Limited Partnership
By: Transco Exploration Company
Managing General Partner

By: 

(Signature of lessee)

Wade S. McAlister, Vice President - Land
1700 Lincoln Street, Suite 2100
Denver, Colorado 80203

July 10, 1987

(Date)

(Address)

SAMEDAN OIL CORPORATION
SUITE 2550
1616 GLENARM PLACE
DENVER, COLORADO 80202
303-534-0677
OMNIFAX 303-893-2675

May 8, 1987

Department of the Interior
Bureau of Land Management
P.O. Box 7
Monticello, UT 84535

RE: Lease U-46818
Designation of Agent

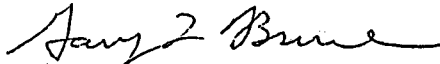
Gentlemen:

You are hereby advised that Permits West, Inc. of Santa Fe, NM has been retained to represent Samedan Oil Corporation to prepare and submit, in its behalf, drilling applications, sundry notice, and completion report forms relating to said drilling plans or surface use plans as assigned by the company.

This responsibility is conferred for the captioned lease, and may be used as reference for drilling other leases of record held by, or under assignment to, Samedan Oil Corporation.

Sincerely,

SAMEDAN OIL CORPORATION



Gary L. Brune
Division Production Superintendent

GLB:mf

✓cc: Mr. Brian Wood
C/O Ramada Inn
666 South Broadway
Cortez, CO 81321

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All lease operations will be conducted in full compliance with applicable laws, regulations (43 CFR 3100), Onshore Oil & Gas Order #1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. Samedan Oil Corporation will furnish a copy of these conditions to its field representative to assure compliance.

8 Point Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation Name</u>	<u>Depth from GL*</u>	<u>Depth from KB</u>	<u>Subsea Depth</u>
Dakota	000'	12'	+6,003'
Morrison	100'	112'	+5,903'
Entrada	1,593'	1,605'	+4,410'
Navajo	1,693'	1,705'	+4,310'
Kayenta	2,003'	2,015'	+4,000'
Wingate	2,203'	2,215'	+3,800'
Chinle	2,503'	2,515'	+3,500'
Shinarump	3,123'	3,135'	+2,880'
Moenkopi	3,253'	3,265'	+2,750'
Cutler	3,403'	3,415'	+2,600'
Hermosa	5,303'	5,315'	+ 700'
Upper Ismay	6,403'	6,415'	- 400'
Lower Ismay	6,563'	6,575'	- 560'
Desert Creek	6,643'	6,655'	- 640'
Akah	6,743'	6,755'	- 740'
Total Depth (TD)	6,805'	6,817'	- 802'

* ungraded GL

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2. NOTABLE ZONES

The estimated depths from ungraded GL at which water, oil, gas, or other mineral bearing zones are expected to be encountered are:

Possible Water Zones

Navajo: 1,693'
Kayenta: 2,003'
Wingate: 2,203'

Possible Oil & Gas Zones

Upper Ismay: 6,403'
Lower Ismay: 6,563'
Desert Creek: 6,643'

Possible Uranium Zones

Morrison: 100'
Chinle: 2,503'

Water bearing zones will be protected with weighted mud. All fresh water encountered during drilling will be recorded by depth, cased, and cemented. All oil and gas shows will be tested to determine commercial potential.

3. PRESSURE CONTROL (Also see "5." on PAGE 4)

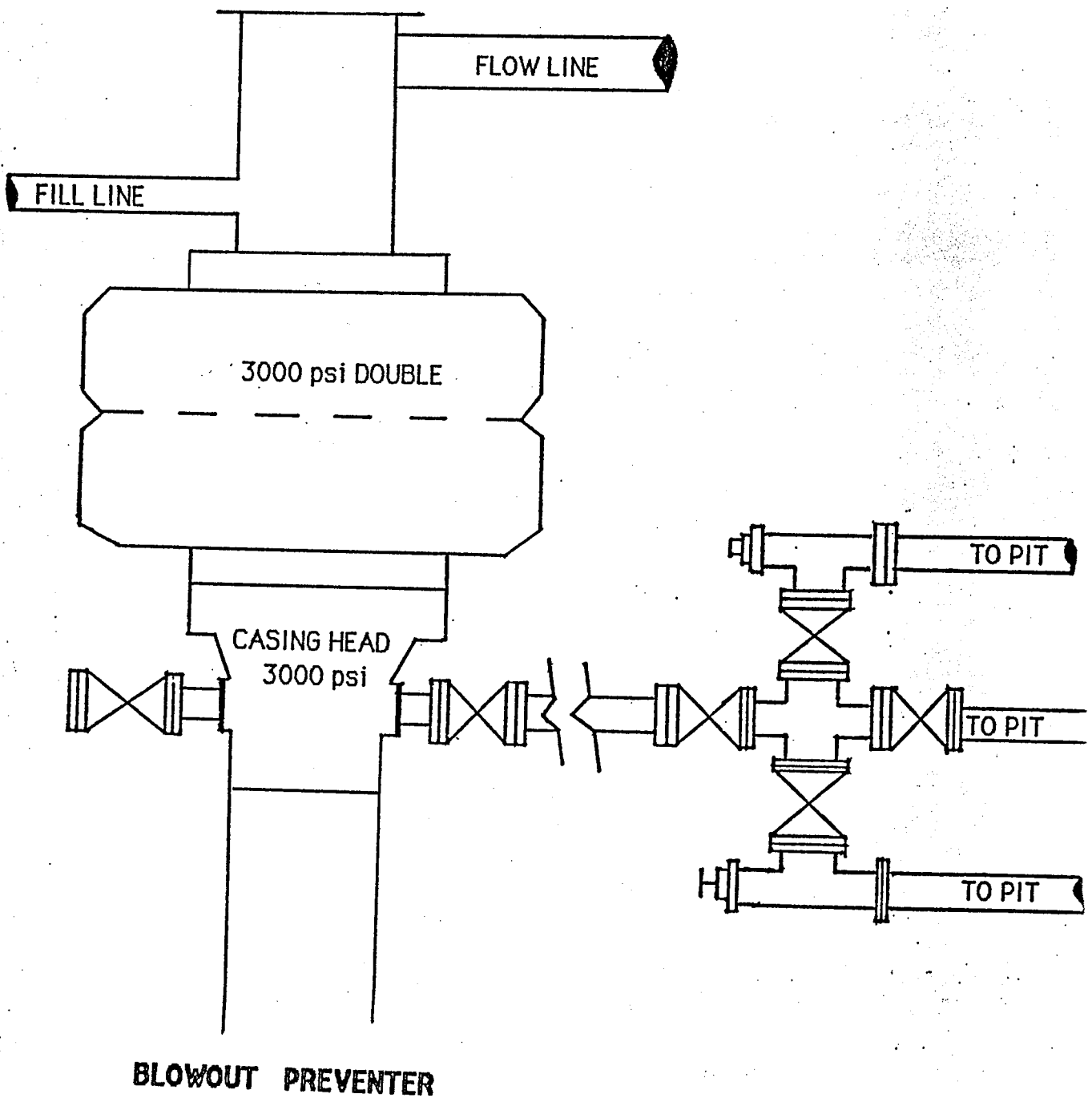
BOP systems will be consistent with API RP 53. An 11" x 3,000 psi double ram and annular preventer with a 3,000 psi choke manifold will be used. A diagram of a typical model is on Page 3. Actual model will not be known until bid is let.

Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. BOP controls will be installed before drilling the surface casing plug, and will stay in use until the well is completed or abandoned. Preventers will be pressure tested before drilling casing cement plugs. All BOP mechanical and pressure tests will be recorded on the drillers log.

BOPs will be inspected and operated at least daily to assure good mechanical working order. This inspection will be recorded on the daily drilling report.

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4. CASING & CEMENTING

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>Setting Depth (GL)</u>
16"	13-3/8"	48*	H-40	ST&C	New	0'- 120'
12-1/4"	8-5/8"	24*	K-55	ST&C	New	0'-2550'
7-7/8"	5-1/2"	15.5*	K-55	ST&C	New	0'-6805'

Conductor Pipe (0-120'): Cement to surface with 100 sx.

Surface Casing (0-2,550'): Cement to surface with 930 sx "Neat" (tail) and "Light" (lead).

Production Casing: Cement from 6,805' (TD) to 3,000' in one stage with 560 sx. "Neat" will be used across producing zones and casing shoes. "Light" will be used for remainder.

5. MUD PROGRAM

<u>Depth</u>	<u>Type</u>	<u>Weight (ppg)</u>	<u>Viscosity (sec/qt)</u>	<u>F/L (cc)</u>
0'-2,500'	Fr. Water w/ Floc	8.3-8.7	26-29	NC
2,500-5,300'	Fr. Water w/ Floc	8.3-8.4	26-29	NC
5,300-TD	Fresh Water Poly.	8.8-9.2	34-40	<15

6. CORING, TESTING, & LOGGING

No cores are planned. Drill stem tests will be run in the Upper Ismay and Desert Creek if good shows are found. Samples will be collected every 30' from the surface to 5,000'. A 2 man mud logging unit will be present from 5,000' to TD and samples will then be collected every 10'. The following logs may be run:

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DLL/GR: Total Depth to Surface
MSFL: Total Depth to 5,800'
FDC/CNL/GR: Total Depth to 4,800'

Whether the well is completed as a dry hole or producer, "Well Completion or Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well, or after completion of operations being performed, *per* 43 CFR 3164. Two copies of all logs, core descriptions & analyses, well test data, geologic summaries, sample descriptions, and all other data obtained during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. (If requested, sample cuttings, fluids, and/or gases will be submitted to the District Manager.)

7. DOWNHOLE CONDITIONS

The maximum anticipated bottom hole pressure is 2,500 psi. No abnormal pressures, temperatures, or hydrogen sulfide are expected.

8. MISCELLANEOUS

The anticipated spud date is September 15, 1987. It is expected it will take 3 weeks to drill the well and 10 days to complete the well.

Samedan Oil Corporation or its dirt contractor, will contact the Resource Area 48 hours before starting dirt work.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will

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be obtained and notification given before resumption of operations.

The spud date will be phoned to the Resource Area, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5), reporting the spud date and time, will be sent to the District Manager within 24 hours after spudding. If the spud is on a weekend or holiday, the Sundry will be sent on the following regular work day.

Starting with the month in which operations begin, and continuing each month until the well is physically plugged and abandoned, a "Monthly Report of Operations" (Form 3160-6) will be sent to the District Manager.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual events will be promptly reported to the Resource Area *per* NTL-3A.

A Sundry Notice will be filed for prior approval of the District Manager if a replacement rig is planned for completion. All conditions of this approved plan apply to all operations of the replacement rig. In emergencies, verbal approval can be given by the District Manager.

If the well is successfully completed for production, then the District Manager will be notified. Written notification will be sent not later than 5 business days following the date on which the well is placed on production. The Resource Area will schedule a first production conference within 15 days after receipt of the first production notice.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Manager. This preliminary approval will not exceed 30 days or 50 MMcf of gas. Approval to vent/flare beyond this initial period will require the District Manager's approval *per* NTL-4A.

No well abandonment operations will begin without the prior approval of the District Manager. With a newly drilled dry hole, failure, or emergency,

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oral approval will be obtained from the District Manager. A Sundry Notice will be sent to the District Manager within 30 days following completion of the well for abandonment. The Sundry will note where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until reclamation required by the approved APD or abandonment notice has been completed to the satisfaction of the Area Manager.

Once plugged, a regulation dry hole marker will be erected. The following information will be beaded on with a welding torch: Samedan Oil Corporation, Recapture Federal 29-34, SWSE 29-36s-23e, U-49986.

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13 Point Surface Use Plan

1. EXISTING ROADS (See PAGES 16-18)

From the junction of US 666 and US 191 in Monticello, Utah, go south 17 mi. on US 191.

Then turn left and go northeast 2.1 mi. on gravel county road #215.

Then turn right and go south 3.9 mi. on gravel county road #207 (Mustang).

Then turn right just before a corral and go 0.4 mi. west on a seismic trail.

Existing roads are successively federal, county, private, and on-lease. Roads will be maintained to a standard at least equal to their present condition. Only the seismic trail will require upgrading.

An Encroachment Permit has been approved by the San Juan County Road Dept. Samedan has a signed contract with Kelly Laws, landowner, to use and upgrade his portion of the seismic trail.

2. ROADS TO BE BUILT OR UPGRADED (See PAGE 18)

From road #207, a seismic trail 0.4 mi. in length goes west toward the well. Then a new road 0.1 mi. long will be built northwest to the well.

Both roads will be flat bladed with a 20' wide running surface (30' maximum disturbed width). There will be no turnouts or fence crossings. Maximum cut or fill will be 8'. Maximum grade will be 10%. A 60' long 36" O.D. culvert will be installed. The latter three will be on private land.

Surface disturbance and vehicle travel will be limited to the approved location and access. Any additional area needed will be approved in advance by the Area Manager. If access is used during wet winter

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weather, road surfacing may be required.

The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling the drill rig. If this deadline cannot be met, the Resource Area will be notified so temporary drainage control can be installed. Class III Road Standards control drainage through the use of topography, ditch turnouts, dips, outsloping, crowning, low water crossings, and culverts. Specific measures will be determined at a field inspection.

3. EXISTING WELLS

There are no water, producing, injection, or disposal wells within 1 mile.

4. PROPOSED PRODUCTION FACILITIES

The type and layout of the production facilities are not known now. A Sundry Notice will be submitted for approval before they are installed.

All permanent (on site for 6 or more months) surface facilities will be painted a flat, neutral, earthtone color. Painting will be completed within 6 months of installation. Parts required to comply with OSHA colors will be excluded. Specific color will be determined by BLM after an on-site.

If a tank battery is built, it will be surrounded by a dike of sufficient capacity to contain 150% of the storage capacity of the largest tank in the battery. All loading lines will be placed inside the dike.

All site security guidelines in 43 CFR 3162.7 will be obeyed. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

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All off-lease storage, off-lease measurement, or commingling on-lease or off-lease must have prior written approval from the District Manager.

Any gas meter run will be within 500' of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500' downstream of the meter and any production facilities. Meters will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well pad. Meters will be calibrated in place before delivery begins. Meter accuracy tests will be conducted monthly for the first 3 months on new meters, and at least quarterly thereafter. The Resource Area will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be sent to the Resource Area. All meters will conform with the API standards for liquid hydrocarbons and AGA standards for natural gas measurement.

5. WATER SUPPLY (See PAGE 17)

Water will be trucked 6.5 mi. from Recapture Reservoir on BLM administered land in SWSW Sec. 7, T. 36 S., R. 23 E. An Application to Appropriate Water has been approved by the State of Utah Div. of Water Rights. The water hauler will contract with the San Juan Water Conservancy District. This is casual use.

6. CONSTRUCTION MATERIALS

Pad construction materials are native *in situ* soils on lease. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

7. WASTE DISPOSAL

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The reserve pit will not need to be lined. More than half of the capacity will be in cut. A dike will be built in the center to increase mud retention time. The pit will be fenced on 3 sides with woven wire topped with barbed wire. The 4th side will be fenced once the rig moves off. The fence will be kept in good repair while the pit dries.

All trash will be placed in a portable trash cage. When full, it will be hauled to an approved landfill in Colorado, or the Blanding city dump. A burning permit is required for burning trash between May 1 and October 31. A burning permit can be obtained by calling the San Juan County Sheriff at (801) 587-2237. The road and pad will be kept litter free.

Human waste will be disposed of in 20' deep ratholes or chemical toilets. The ratholes will be immediately filled when the trailers are removed.

Produced water will be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period an NTL-2B application will be submitted for the District Manager's approval of a permanent disposal method and site.

8. ANCILLARY FACILITIES

There will be no formal camp, though three camper trailers may on site for the company man, mud logger, and tool pusher.

9. WELL SITE LAYOUT

See PAGES 19-21 for depictions of the well pad, cross sections, cut and fill diagrams, reserve pit, burn pit, access road onto the pad, parking, living facilities, soil stockpile, and rig orientation.

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The top 4-6" of soil will be removed from the location and stockpiled west of the pad and north of the reserve pit. Topsoil along the access will be reserved in place.

10. RECLAMATION

Immediately upon completion of drilling, all trash and debris will be collected from the pad and surrounding area and placed in the trash cage.

Samedan's dirt contractor will call the Resource Area 48 hours before starting reclamation that involves earth moving equipment, and upon completion of reclamation. The reserve pit must be completely dry before it is backfilled.

All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.

The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12" deep with the contour.

Seed will be broadcast between October 1 and February 28 with 10 pounds per acre crested wheatgrass. A harrow or similar implement will be dragged over the area to assure seed cover.

After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed area. The access will be blocked to prevent vehicle access and water bars built as follows:

Grade
2%
2-4%

Spacing
Every 200'
Every 100'

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Grade
4-5%
5%+

Spacing
Every 75'
Every 50'

The reserve pit and that part of the pad not needed for production will be reclaimed as previously described. Enough topsoil will be kept to reclaim the remainder of the pad at a future date. The remaining topsoil stockpile will be seeded in place using the prescribed seed mix.

11. SURFACE OWNER

The surface owner of the first 0.3 mi. of seismic trail is Kelly G. Laws. His phone number is (801) 678-2474. His address is 295 W 400 S (23-5), Blanding, Utah 84511.

The surface owner of the pad and last 0.2 mi. of road is the U.S. Government.

12. OTHER INFORMATION

The dirt contractor will be provided with an approved copy of the surface use plan.

There will be no change from the proposed drilling and/or workover plan without prior approval from the District Manager. A Sundry Notice will be filed for approval for all changes of plans and other operations *per* 43 CFR 3164.

Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified *per* 43 CFR 3162.2.

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If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the Resource Area will be called. All people who are in the area will be informed by Samedan that they are subject to prosecution for disturbing archaeological sites or picking up artifacts, including arrowheads. An archaeological site east of the pad is not to be disturbed.

This permit will be valid for one year from the date of approval. After the permit expires, a new application will be filed for approval of any future operations.

The District Office's mailing address is P.O. Box 970, Moab, Utah 84532. The phone number is (801) 259-6111. Ask for Steve Jones.

The Resource Area's mailing address is P.O. Box 7, Monticello, Utah 84535. The phone number is (801) 587-2141. Ask for Rich McClure for surface problems. Ask for Mike Wade for subsurface problems.

The nearest hospital is a 25 minute drive to Monticello, Utah. It is 3 blocks northwest of the intersection of US 666 and US 191. Phone number is (801) 587-2116. The nearest medically equipped helicopter is in Grand Junction, Colorado, at St. Mary's Hospital. Call (303) 244-2550.

13. REPRESENTATION AND CERTIFICATION

For questions concerning the APD, please contact:

Brian Wood
Permits West, Inc.
37 Verano Loop
Santa Fe, NM 87505
(505) 984-8120

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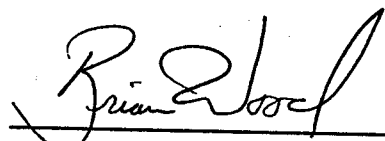
The field representative for Samedan Oil Corporation will be:

Gary Brune, Division Production Superintendent
1616 Glenarm Place, Suite 2550
Denver, Co. 80202-4371
(303) 534-0677

Home: (303) 779-5194

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Samedan Oil Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

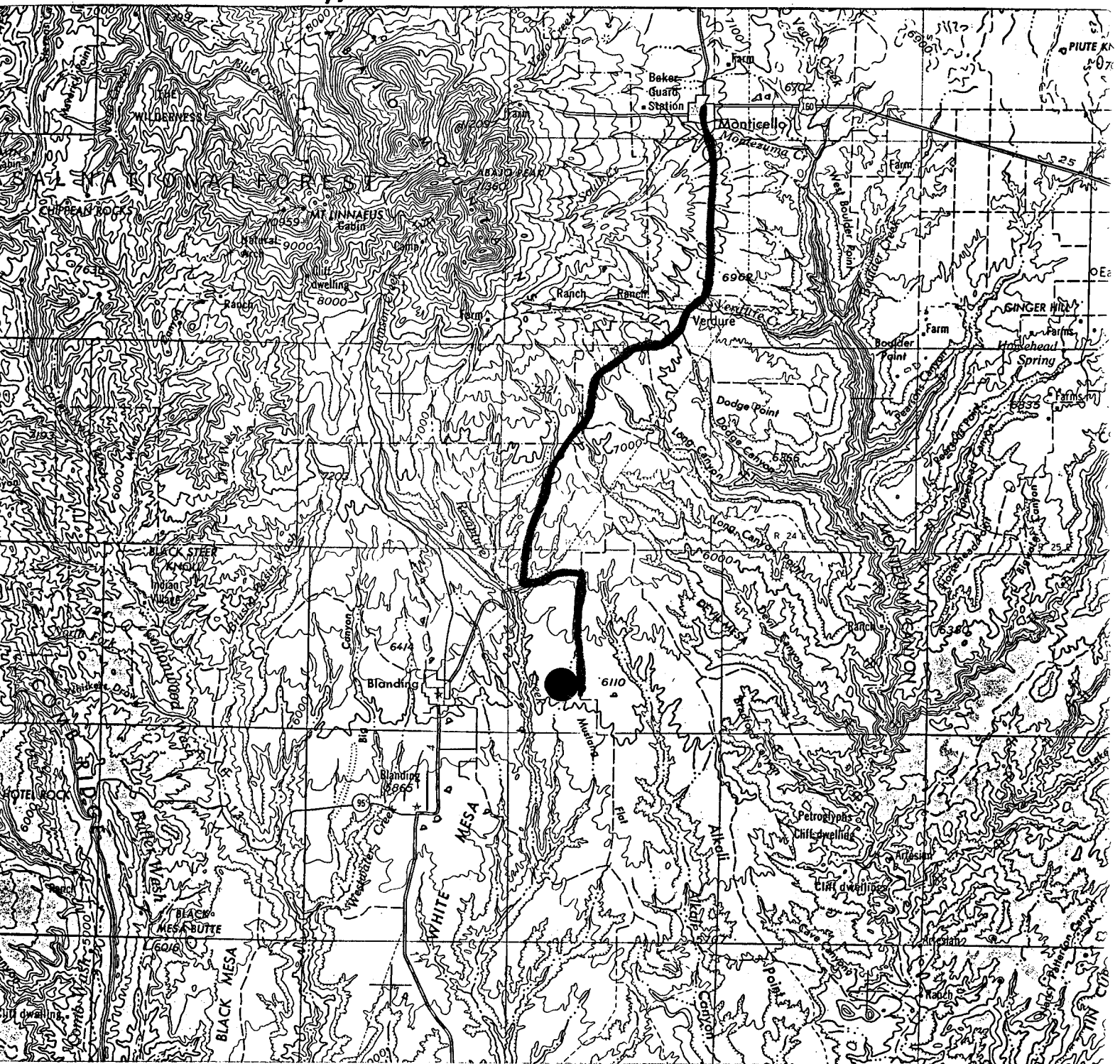


Brian Wood

8-28-87
Date

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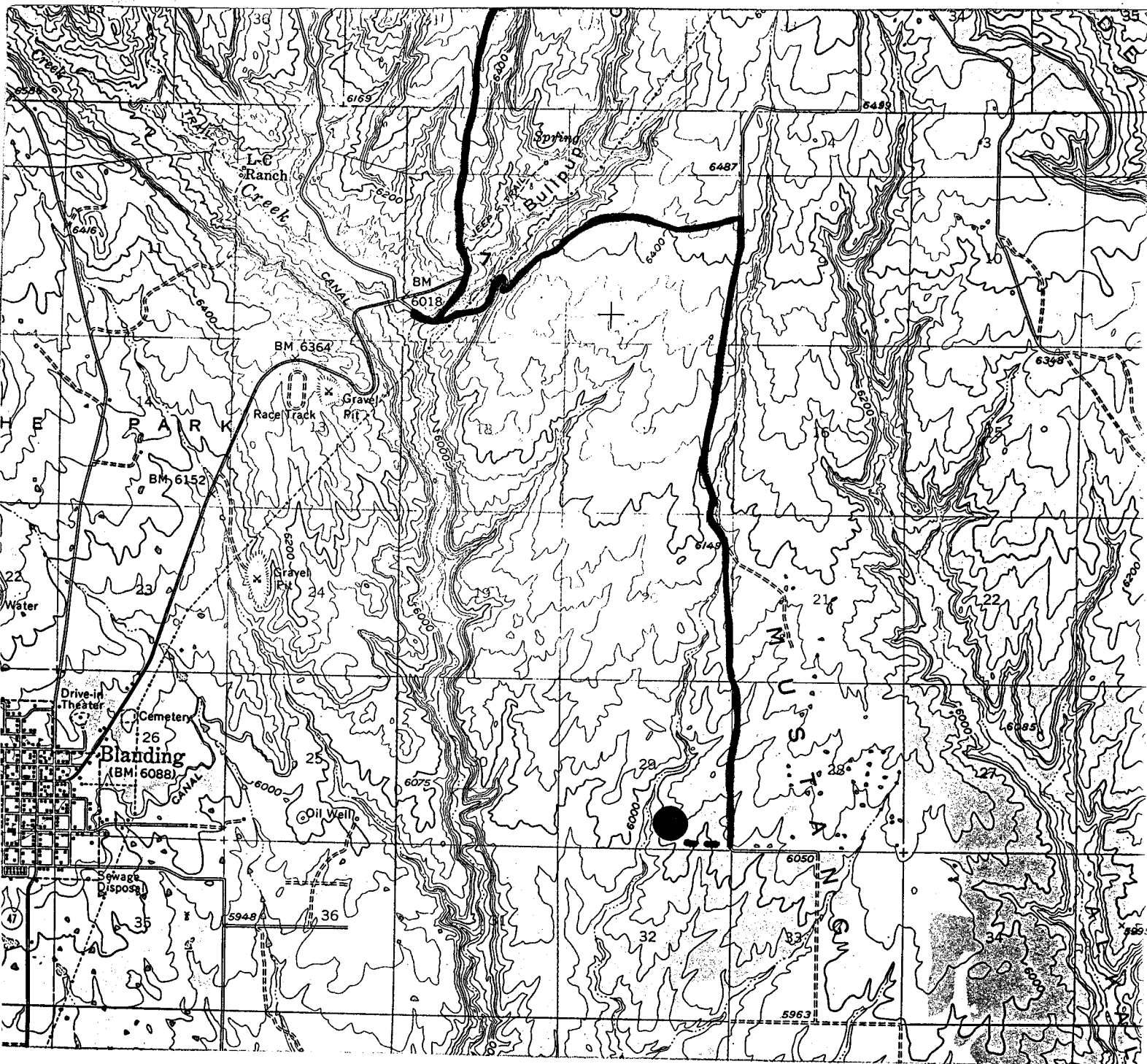


EXISTING ACCESS: —

PROPOSED WELL: ●

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San Juan County, Utah**

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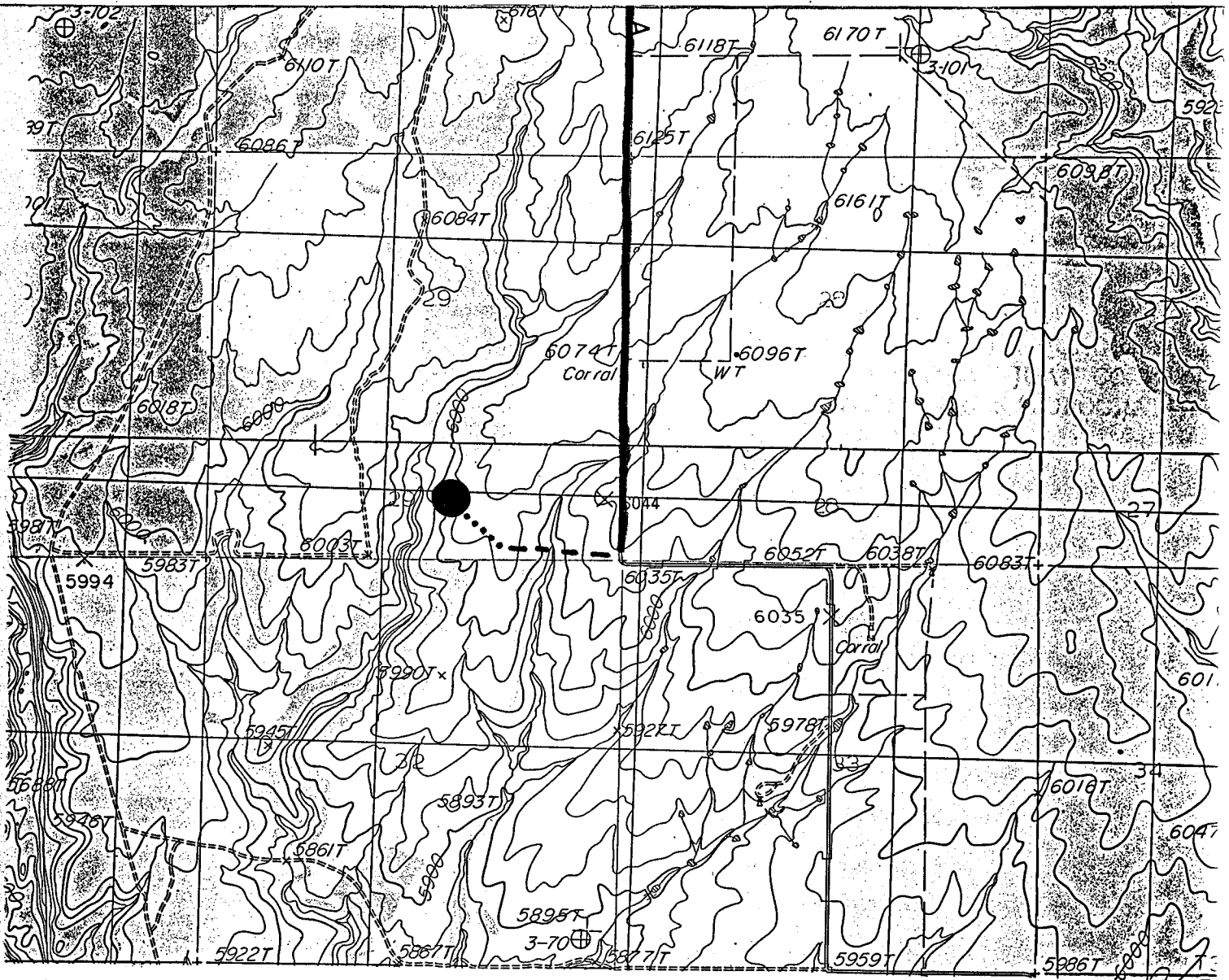
EXISTING ACCESS: —

NEW OR UPGRADED ACCESS: - -

PROPOSED WELL: ●

Samedan Oil Corporation
 Recapture Federal 29-34
 780' FSL & 2100' FEL
 Sec. 29, T. 36 S., R. 23 E.
 San Juan County, Utah

PAGE 18

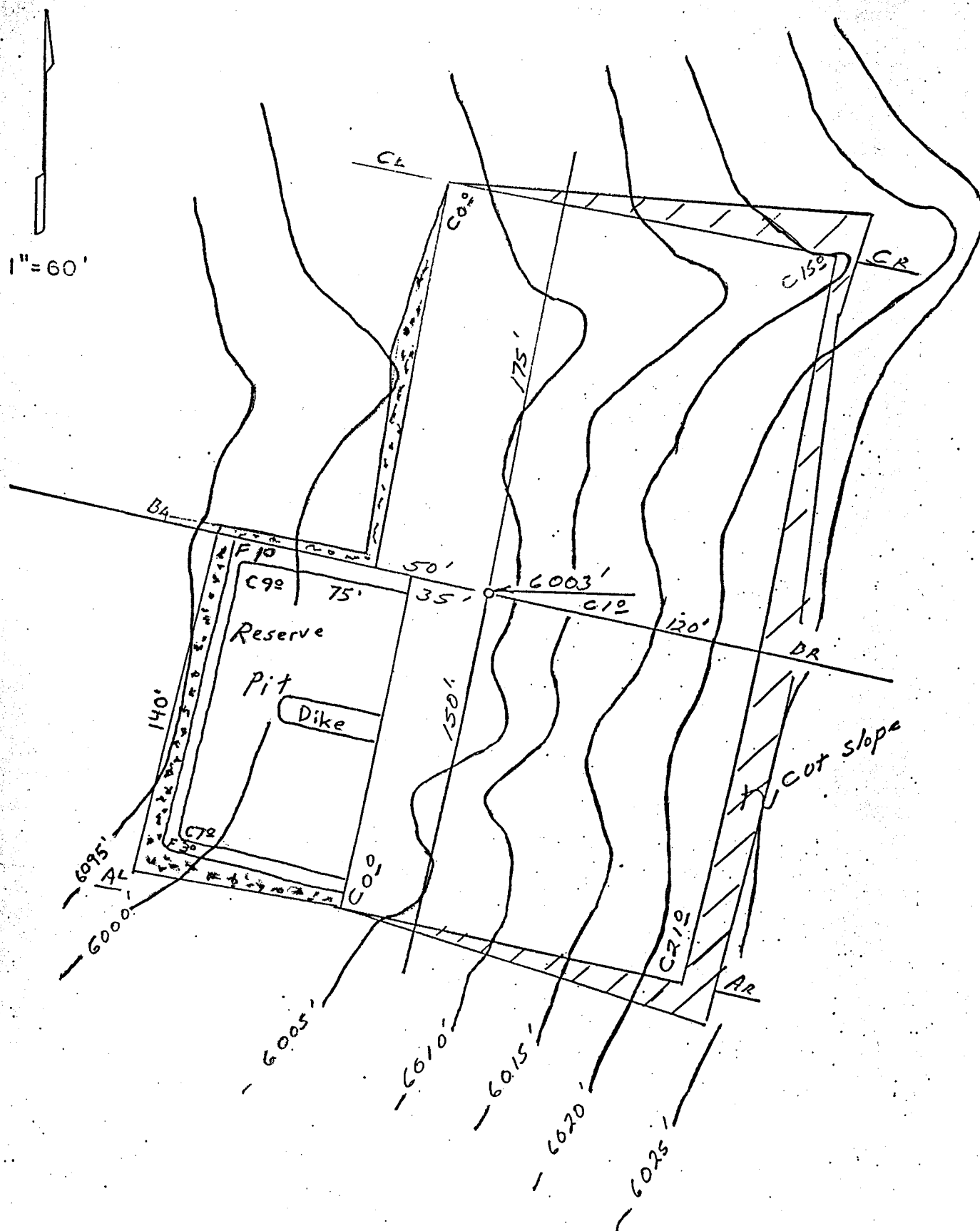


EXISTING ACCESS: ———

UPGRADED ACCESS: - - -



NEW ACCESS: ...

PROPOSED WELL: ●

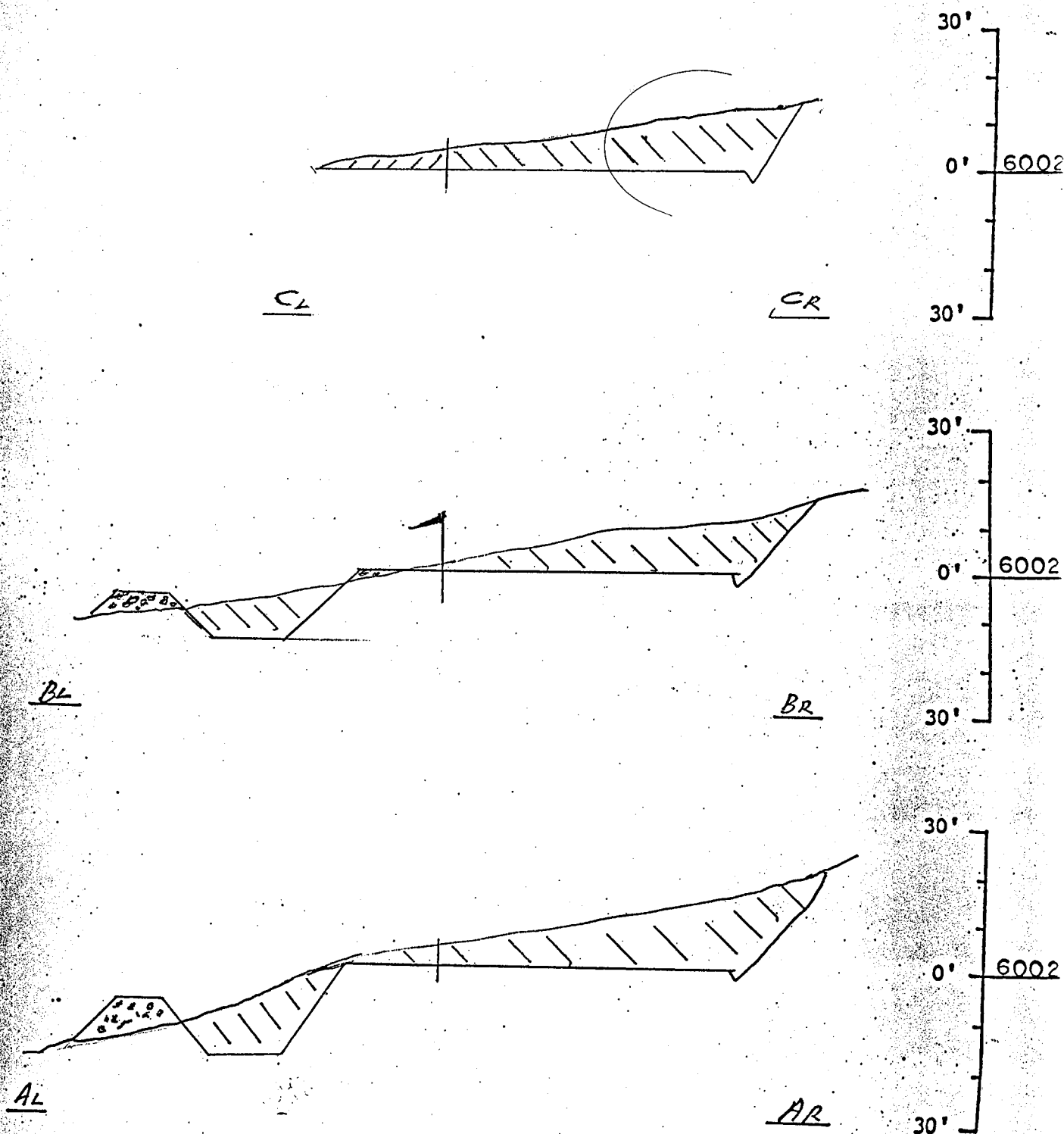


WELL PAD CROSS-SECTION

Recapture Federal 29-34

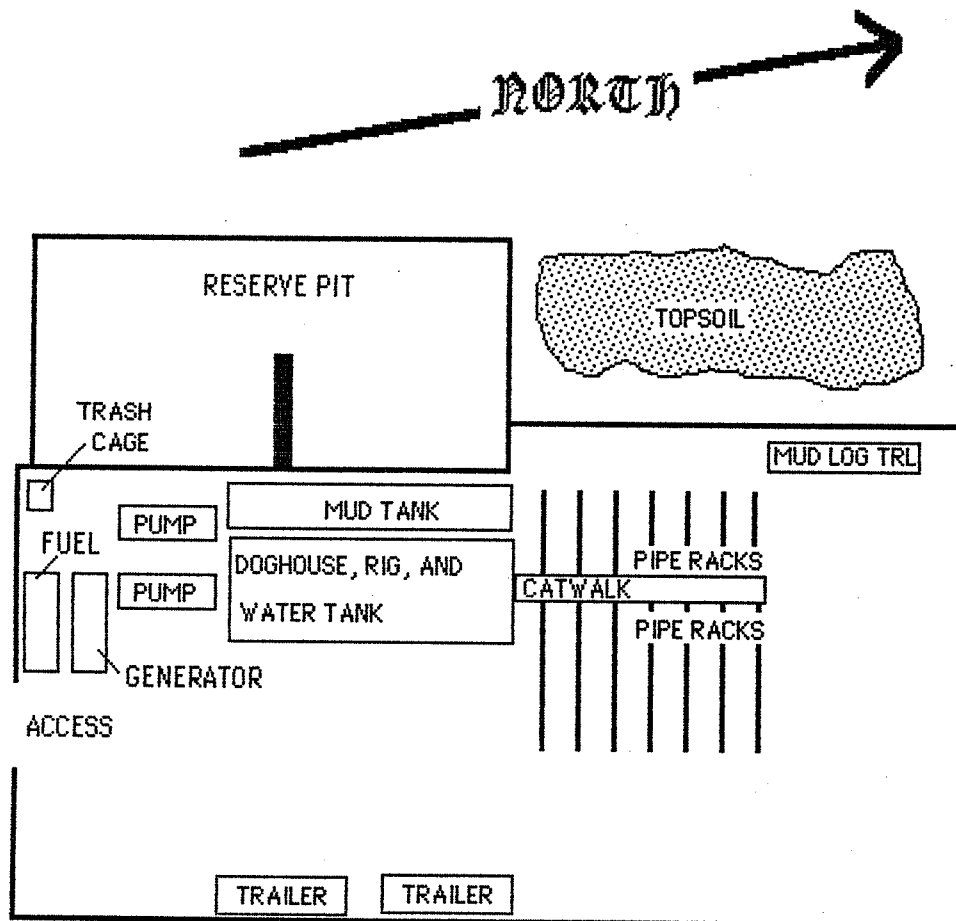
Cut 
Fill 

Scales: 1" = 60' H.
1" = 30' V.



Samedan Oil Corporation
Recapture Federal 29-34
780' FSL & 2100' FEL
Sec. 29, T. 36 S., R. 23 E.
San Juan County, Utah

PAGE 21



TEMPORARY

FILING FOR WATER IN THE
STATE OF UTAH

RECEIVED

1987 27

Rec. by 910
Fee Rec. 20.00
Receipt # 88206
Microfilmed _____
Roll # _____

APPLICATION TO APPROPRIATE WATER

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

WATER USER CLAIM NO. 229 — 1531

* APPLICATION NO. A T62754 RECEIVED

1. PRIORITY OF RIGHT: Aug. 12, 1987

* FILING DATE: Aug. 12, 1987
AUG 12 1987

2. OWNER INFORMATION

Name(s): Samedan Oil Corporation
Address: c/o Permits West, Inc. 37 Verano Loop, Santa Fe, NM 87505

* Interest: _____
WATER RIGHTS PRICE
(505) 984-8120

Is the land owned by the applicant? Yes _____ No XXX
(If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: _____ cfs and/or Six _____ ac-ft

4. SOURCE: Recapture Creek (Reservoir) * DRAINAGE: _____
which is tributary to San Juan River
which is tributary to Colorado River

POINT(S) OF DIVERSION: _____
North 1100 feet and East 200 feet from the SW corner of Sec. 7, T. 36 S., R. 23 E., SLBM

COUNTY: San Juan

Description of Diverting Works: Water will be pumped directly into 85 bbl tank trucks.

* COMMON DESCRIPTION: 4 miles NE of Blanding Blanding Quad

5. POINT(S) OF REDIVERSION

The water will be rediverted from N/A _____ at a point: _____

Description of Rediverting Works: _____

6. POINT(S) OF RETURN

The amount of water consumed is N/A _____ cfs or _____ ac-ft

The amount of water returned is _____ cfs or _____ ac-ft

The water will be returned to the natural stream/source at a point(s): _____

7. STORAGE

Reservoir Name: _____ N/A Storage Period: from _____ to _____

Capacity: _____ ac-ft. Inundated Area: _____ acres

Height of dam: _____ feet

Legal description of inundated area by 40 acre tract: _____

* These items are to be complete by Division of Water Rights

Appropriate

8. List any other water rights which are or will supplement this application Application supplements
other entities' water rights for stockwatering, irrigation, etc

9. NATURE AND PERIOD OF USE

Stockwatering:	From _____	to _____
Domestic:	From _____	to _____
Municipal:	From _____	to _____
Mining:	From _____	to _____
Power:	From _____	to _____
Other:	From <u>Sept. 1, 1987</u>	to <u>April 1, 1988</u>
Irrigation:	From _____	to _____

10. PURPOSE AND EXTENT OF USE

Stockwatering (number and kind): _____
Domestic: _____ Families and/or _____ Persons
Municipal (name): _____
Mining: _____ Mining District in the _____ Mine
Ores mined: _____
Power: Plant name: _____ Type: _____ Capacity: _____
Other (describe): Water will be used for oil well drilling mud, dust control, compaction, etc.
Irrigation: _____ acres. Sole supply of _____ acres
Legal description of irrigated area by 40 acre tract: _____

11. PLACE OF USE

Legal description of areas of use other than irrigation, if not the same as irrigated area above, by 40 acre tract: North 660' and West 1980' from the SE corner of Sec. 29, T. 36 S., R. 23 E., SLBM at the
Recapture Federal 29-34 oil well, and South 500' and West 500' from the NE corner of Sec. 32, T. 36 S.,
R. 23 E., SLBM at the Recapture State 32-41 oil well.

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of same size if necessary): From #2: Land is public (federal) and administered by Bureau of
Land Management, Monticello, Utah. Recapture Reservoir is administered by the San Juan Water
Conservancy District. Norman Nielson has approved this use.

The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

Brian C. [Signature]
Signature of Applicant(s)

TEMPORARY

STATE ENGINEER'S ENDORSEMENT


WATER RIGHT NUMBER: 09 - 1531

APPLICATION NO. T62754

1. August 12, 1987 Application received by MP.
 2. August 12, 1987 Application designated for APPROVAL by MP and SG.
 3. Comments:
-
-

Conditions:

This application is hereby APPROVED, dated August 26, 1987, subject to prior rights and this application will expire on August 26, 1988.


Robert L. Morgan, P.E.
State Engineer

090802

OPERATOR Somedan Oil Corp. DATE 9-2-87
WELL NAME Reception Fed. 29-34
SEC SWSE 29 T 36S R 23E COUNTY San Juan

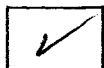
43-037-31340

API NUMBER

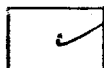
Fed.

TYPE OF LEASE

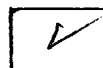
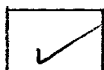
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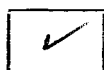
PLAT



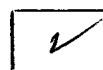
BOND

NEAREST
WELL

LEASE



FIELD

POTASH OR
OIL SHALE

PROCESSING COMMENTS:

No other well in Sec. 29.Water 09-1531 (T62754)

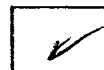
APPROVAL LETTER:

SPACING:

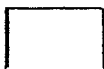


R615-2-3

UNIT



R615-3-2



CAUSE NO. & DATE



R615-3-3

STIPULATIONS:

0218T



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

September 4, 1987

Samedan Oil Corporation
1616 Glenarm Place, Suite 2550
Denver, Colorado 80202

Gentlemen:

Re: Recapture Federal 29-34 - SW SE Sec. 29, T. 36S, R. 23E
780' FSL, 2100' FEL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-2, Oil and Gas Conservation General Rules.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form to the Division within five working days of the time that the well is spudded or a change in operations or interests necessitates a change in entity status.
3. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
4. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
5. Compliance with the requirements of Rule R615-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2
Samedan Oil Corporation
Recapture Federal 29-34
September 4, 1987

6. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31340.

Sincerely;



R. J. Rirth
Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals
D. R. Nielson
8159T

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-49986
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
2. NAME OF OPERATOR Samedan Oil Corporation (303) 534-0677		7. UNIT AGREEMENT NAME N/A
3. ADDRESS OF OPERATOR 1616 Glenarm Pl., Suite 2550, Denver, Co. 80202		8. FARM OR LEASE NAME Recapture Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 780' FSL & 2100' FEL (SWSE) At proposed prod. zone Same		9. WELL NO. 29-34
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 3 air miles E of Blanding, Utah		10. FIELD AND POOL OR WILDCAT Wildcat
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 780'	16. NO. OF ACRES IN LEASE 720	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 29-36s-23e SLBM
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A	19. PROPOSED DEPTH 6,805'	12. COUNTY OR PARISH San Juan
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6,003' ungraded ground		13. STATE Utah
22. APPROX. DATE WORK WILL START* Sept. 15, 1987		

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

See PAGES 2-4 for casing, cement, and pressure control information.

RECEIVED

SEP 10 1987

DIVISION OF OIL
GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Brian R. [Signature] TITLE Consultant DATE 8-28-87

(This space for Federal or State office use)

PERMIT NO. 43-037-31340

APPROVAL DATE

APPROVED BY /s/ C. DeLano Backus

Acting District Manager

SEP 08 1987

CONDITIONS OF APPROVAL, IF ANY:

TITLE

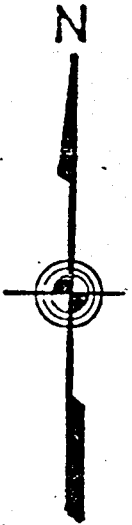
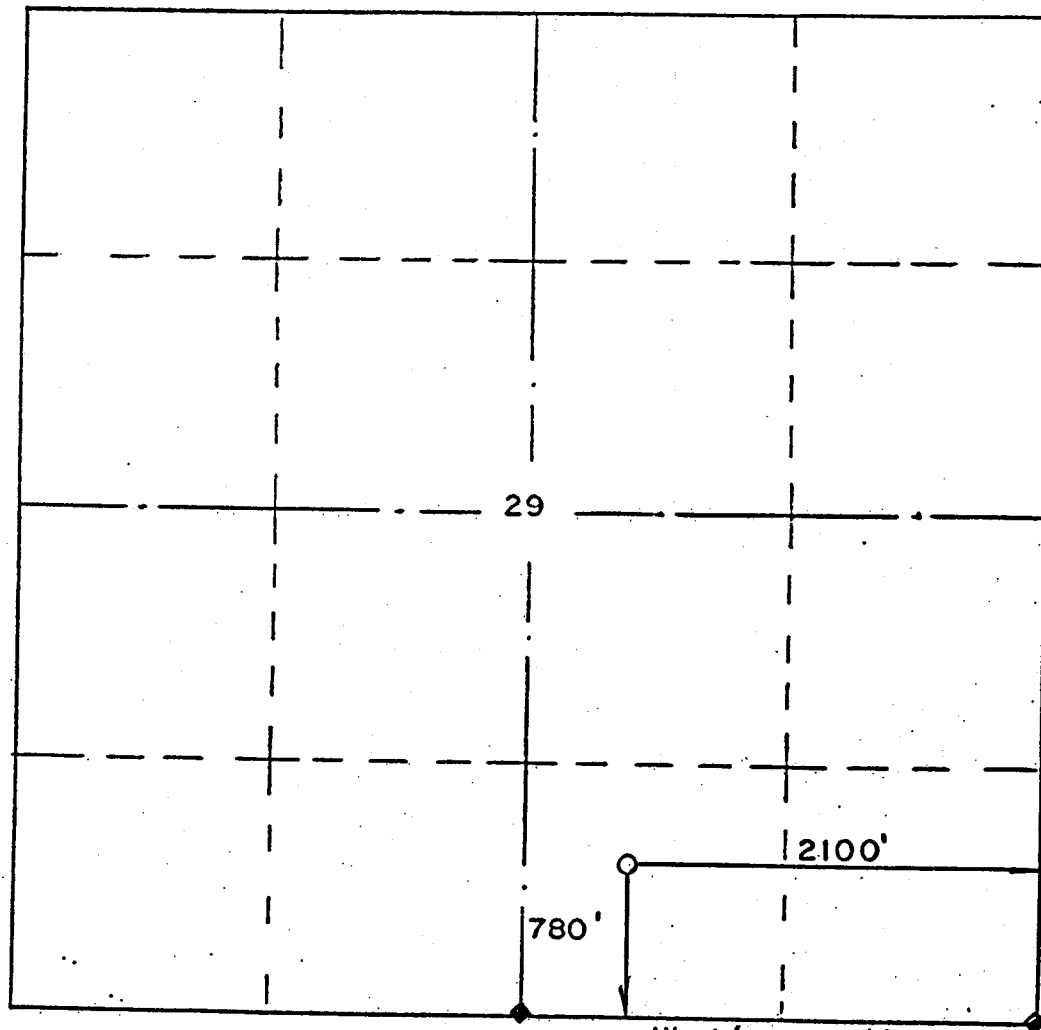
DATE

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80
*See Instructions On Reverse Side
cc: Brune (3), MDO (3), SJRA (1), UDOGM (2)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DOB

WELL LOCATION AND ACREAGE DEDICATION PLAT



1"=1000

◆ brass c

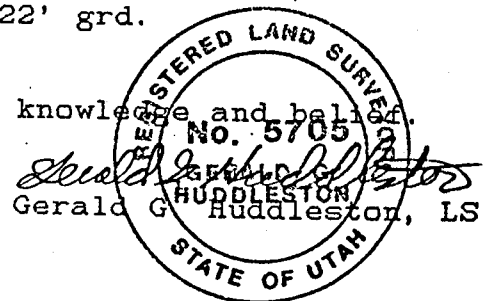
WELL LOCATION DESCRIPTION:

West (assumed)

SAMEDAN OIL CORP., Recapture Federal 29-34
 780' FSL & 2100' FEL
 Section 29, T.36 S., R.23 E., SLM
 San Juan County, UT
 6003' ground elevation
 Alternate: 660' FSL & 1980' FEL, 6022' grd.

The above plat is true and correct to my knowledge and belief.

19 August 1987



Samedan Oil Corporation
Well No. Recapture Federal 29-34
Sec. 29, T. 36 S., R. 23 E.
San Juan County, Utah
Lease U-49986

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Samedan Oil Corporation is the bonded entity on this application. Liability will remain with the bonded party named above until we are formally notified by letter of the new bonded entity in reference to this Application for Permit to Drill.

A. DRILLING PROGRAM

1. 8-5/8" surface casing will be pressure tested to at least 1000 psi.



La Plata Archeological Consultants, Inc.

P.O. Box 783
Dolores, Colorado 81323
303-882-4933

September 17, 1987

36 S 23 E Sec. 29

Mr. Bob Turri
Bureau of Land Management
San Juan Resource Area Office
P.O. Box 7
Monticello, Utah 84535

43-037-31340 PA

Mr. Turri:

Please find enclosed the archeological survey report for Samedan Oil Corp's Recapture Federal #29-34 well site and two alternate access roads, located on State land and on privately owned land in San Juan County, Utah. Given the stipulations contained in the report archeological clearance for the project has been recommended.

Sincerely,

Barry N. Hibbets
Secretary-Treasurer

Distribution:

Samedan Oil Corp.
BLM-Salt Lake City, Utah
Utah State Historical Society-Antiquities Section
Permits West
State of Utah Natural Resources

Enclosure
BNH/cr

ARCHEOLOGICAL SURVEY OF
SAMEDAN OIL CORPORATION'S
RECAPTURE FEDERAL 29-34
WELL SITE AND TWO ALTERNATE ACCESS ROADS,
SAN JUAN COUNTY, UTAH

LAC REPORT 8791

by
Barry N. Hibbets

LA PLATA ARCHEOLOGICAL CONSULTANTS, INC.
P.O. BOX 783
DOLORES, COLORADO 81323
(303) 882-4933

September 17, 1987

State Permit Number
U-87-LA-515 (s,p)

Prepared For:
Samedan Oil Corp.
2550 Security Life Building
1616 Glenarm Place
Denver, Colorado 80202

ABSTRACT

During August 1987, an archeological survey of Samedan Oil Corp's proposed Recapture Federal #29-34 well site and two alternate access roads. was conducted by personnel of La Plata Archeological Consultants, Inc. The project area is located on Mustang Flat in southeastern San Juan County, Utah. The well site and one access road are located on private land with Federal minerals involved. The other access route is located on State of Utah land. A 660 x 660' square area (10 acres) surrounding the well centerstake, and a 100' wide corridor along the 2900' of 2000' private access was archeologically surveyed 900' state (900' and 2.1 acres state; 2000' and 4.6 acres private). During the course of the investigation two archeological sites were discovered and recorded. Niether site will be affected by the developement and archeological clearance for the project is recommended.

INTRODUCTION

During August 1987, an archeological survey of Samedan Oil Corp's proposed Recapture Federal #29-34 well site and two alternate access roads was conducted by Mr. Barry N. Hibbets of La Plata Archeological Consultants, Inc. The project area is located in southeastern San Juan County, Utah. The well site and ca. 2000' of access road is on privately owned land with Federal minerals involved, and is located in the SE 1/4 of section 29, Township 36 South, Range 23 East. The ca. 900' of alternate access is located in the N 1/2 of section 32 Township 36 South, Range 23 East on land owned by the State of Utah. All of the area is located on the Blanding South, Utah, 1985 (provisional) topographic quadrangle.

The project will consist of the construction of a single well pad ca. 275 x 325' in area, and upgrading an existing road and building a new road. A total of 2900' for two alternate access roads are involved. A 660 x 660' square area (10 acres) surrounding the

well centerstake, and a 100' wide corridor along the access routes was archeologically surveyed. (2.2 acres State and 4.6 acres private).

The survey was conducted on August 19, 1987 and revisited on August 20, 1987 during the on-site pre-drill inspection. Those present during the pre-drill were Brian Wood (Permits West), Chip Hutchinson (State of Utah), Carol Revelt (State of Utah), Rich McClure (BLM), Gerald Huddleston (surveyer), Richard McClellan (Whitehorse Construction), Lowell Larson (Perry MacDonald Construction), and Howard Huges (Howard Huges Construction).

PHYSIOGRAPHY AND ENVIRONMENT

The project area is located on the top and slopes of a southwest trending ridge and wash on Mustang Flat ca. 3 miles east of the community of Blanding. Terrain is gently undulating with slopes angles ranging up to 10 degrees. The wash drains southwesterly in Jenny's Canyon. Elevation in the area ranges from 5960 to 6035' MSL.

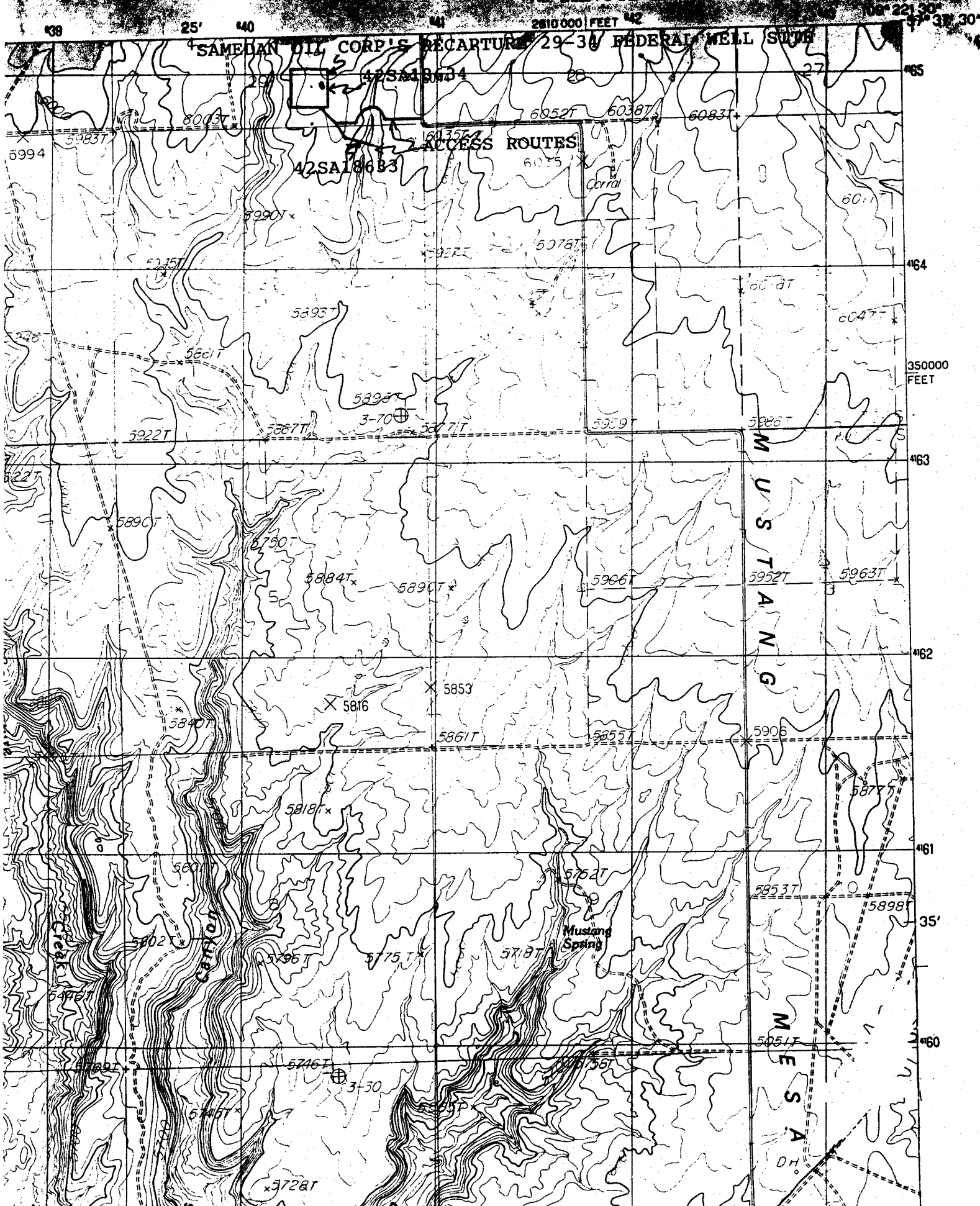
Most of the project area lies in a chained pinyon-juniper forest. Present associations are dominated by invaders such as golden rabbitbrush, big sagebrush, and a variety of annuals and composites. Steeper slopes along the wash are unchained.

Sediments consist primarily of a thin mantle of aeolian blow sand overlying decomposed sandstone. Sandstone is widely scattered throughout the area, with ledges common in the vicinity of the wash.

Present perennial water is located at an unnamed spring at the head of Jenny's Canyon ca. 2.0 Km southwest of the project area. Most major washes and arroyos carry seasonal water.

Avian, reptilian, and mammalian associations are consistent with those of the Upper Sonoran Life Zone throughout the Colorado Plateau.

7.5 MINUTE SERIES (TOPOGRAPHIC)



SURVEY PROCEDURE

Prior to the initiation of the field work a site file and literature review was conducted through the Utah Division of State History - Antiquities Section, and at the BLM - San Juan Resource Area Office. The results of these reviews concluded that no previously recorded sites are present in the project area.

On-the-ground survey was conducted by the single archeologist systematically walking over the proposed well site via a series of parallel east-west transects spaced at 15m intervals. The access routes were surveyed via two sinuous transects spaced at 15m intervals, effectively inventorying a corridor 100' wide.

Discovered cultural resources were recorded on appropriate IMACS site record form, mapped and photographed. No surface collections were made and no subsurface probings or excavations were attempted.

SURVEY RESULTS

Two archeological sites were discovered and recorded by the examination. Both sites lie well away from the proposed development and will not be affected by the project. The following section briefly describes each resource. More detailed information is contained on the site record forms submitted to appropriate state and Federal Offices.

Site Number: 42SA18633

Description: This site consists of a historic Navajo sweat lodge with two burned rock clusters, and a prehistoric hearth or roasting pit/kiln like feature. All of features are situated on an eroded east facing slope above (west) of an unnamed tributary of Jenny's Canyon. The sweat lodge measures ca. 1.7m in diameter with an east-facing entrance. One burned rock cluster is located adjacent to its northern side; the other is ca. 13m to its south-west. The feature appears to date within the last 5-7 years. The pre-historic features consists of a ca. 2x4m cluster of oxidized sandstone, 3 possible upright slabs, ash stained soil, and several unclassifiable Pueblo II-III sherds.

Site Number: 42SA18634

Description: The site is located on a low rise on Mustang Flat. The entire area has been

bulldozed and any interpretations or discussions are tenuous. It presently consists of a ca. 8x15m scatter of sandstone rubble that may represent structural detritus. Several interior and secondary cortex flakes are also present. The site may represent a destroyed field house or similar type of structures. It may date to any prehistoric period.

SUMMARY AND RECOMMENDATIONS

On August 19 and 20, 1987 an archeological survey of Samedan Oil Corp' proposed Recapture Federal #29-34 well site and 2900 of two alternate access routes was conducted by Barry N. Hibbets of La Plata Archeological Consultants, Inc. The proposed developement is located in southeastern San Juan County, Utah and envolved land owned by the State of Utah and private holdings with Federal minerals involved. The project will consist of the construction of a single well pad ca. 275 x 325' in area, and constructing one of two alternate acess routes (2900' total; 200' private and 900' State of Utah). A 660 x 660' square area (10 acres) surrounding the well centerstake, and ca. 100' wide corridor along the access routes was archeologically surveyed (2.1 acres State and 4.6 acres private).

Two archeological sites were discovered and recorded by the investigation. Site 42SA18633 is located on State land and consists of a recent Navajo sweat lodge and PII-III Anasazi hearth-like featue. It lies ca. 50' south of one alternate access route and will not be affected by developement. Site 42SA18634 is completely destroyed (bulldozed) site on private land ca. 75' east of the well site. It will not be affected by developement.

Should subsurface cultural deposits be encountered during the construction phase of the project work should be halted and the Bureau of Land Management Area Archeologist or Utah State Archeologist notified. Measures will then be taken to evaluate the nature and significances of the deposit. Given this stipulation archeological clearance for Samedan Oil Corporation's recapttrue Federal #29-32 well site and access road alternates is recommended.

092201

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

API # 43-037-31340

NAME OF COMPANY: SAMEDAN OIL CORPORATIONWELL NAME: RECAPTURE FEDERAL 29-34SECTION SW SE 29 TOWNSHIP 36S RANGE 23E COUNTY SAN JUANDRILLING CONTRACTOR EXETERRIG # 68SPUDDED: DATE 9-19-87TIME 3:00 PMHOW Rotary

DRILLING WILL COMMENCE _____

REPORTED BY SCOTT STEINKETELEPHONE # 303-534-0677DATE 9-21-87 SIGNED AS

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-49986	
2. NAME OF OPERATOR SAMEDAN OIL CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME 092501	
3. ADDRESS OF OPERATOR 1616 GLENARM PLACE, SUITE 2550 DENVER, COLORADO 80202		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 780' FSL 2100' FEL (SWSE)		8. FARM OR LEASE NAME Recapture Federal	
14. PERMIT NO. 43-037-31340		9. WELL NO. 29-34	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6003' Ungraded Ground Level		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 29-36S-23E SLBM	
		12. COUNTY OR PARISH San Juan	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9/19/87

MIRU Exeter Rig #68. PU rotary tools, drill mouse and rat holes.

Spudded well at 3 P.M. 9/19/87. Drilled 11" pilot hole to 50'. Drilled 17 1/2" hole to 120'. Ran 3 joints 13 3/8" *48" *H40 *STC casing with 2 centralizers and cemented to surface with 100 sx class "B" with 3% CaCl₂ and 1/4#/sk cellophane flakes. Circulated returns. Plug down at 3 P.M. on 9/20/87. WOC 8 hrs, drill out with 11" bit.

RECEIVED

SEP 24 1987

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

Scott A. Stenke

TITLE

Petroleum Engineer

DATE

9/22/87

(This space for Federal or State office use)

APPROVED BY

TITLE

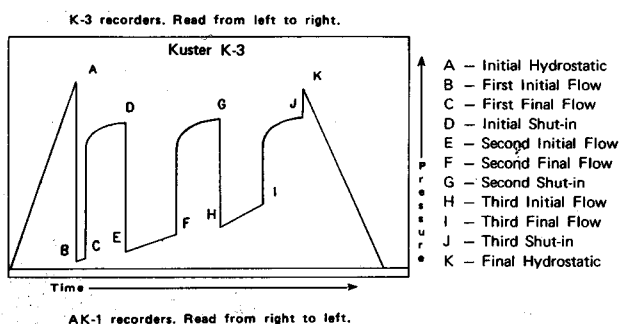
DATE

CONDITIONS OF APPROVAL, IF ANY:

GUIDE TO INTERPRETATION AND IDENTIFICATION OF LYNES DRILL STEM TEST PRESSURE CHARTS

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

CODE USED ON CHART ENVELOPES



NOMENCLATURE

Symbol	Definition	DST Unit
k	permeability	millidarcys (md)
h	pay thickness	feet (ft.)
u	viscosity	centipoise
T	reservoir temperature	°Rankin (°R)
z	gas compressibility factor at average condition	
q _{sc}	gas production rate	MCF/d
M	Horner slope for liquid analysis	PSI/Cycle
Mg	Horner slope for (P ²) gas analysis	PSI ² /Cycle
P _i	initial static reservoir pressure	PSI
P _{wf}	flowing bottom hole pressure	PSI
φ	porosity	(fraction)
r _w	well bore radius	ft.
S	skin factor	
AOF	absolute open flow	MCF/d
D. R.	damage ratio	
r _e	external drainage radius	ft.
ISIP	initial shut-in pressure	PSI
FSIP	final shut-in pressure	PSI
b	approx. radius of investigation	ft.
t	flowing time	hrs.
B	formation volume factor	
q	liquid production rate	bbls/day
c	gas compressibility	1/PSI
c	liquid compressibility	1/PSI

A. Liquid Calculations

- Transmissibility**
$$\frac{Kh}{u} = \frac{162.6 q B}{m}$$
- Capacity**
$$Kh = \frac{Kh}{u} \times u$$
- Permeability**
$$K = \frac{Kh}{h}$$

4. **Skin Factor**

$$S = 1.151 \left[\frac{P_i - P_{wf}}{m} \cdot \log \frac{Kt}{\phi u c r_w^2} + 3.2275 \right]$$

5. **Pressure Drop Due to Skin**

$$\Delta P_{skin} = \frac{162.6 B q u}{Kh} \times 0.869s \quad \text{or} \quad \Delta P_{skin} = 0.869 M S$$

6. **Damage Ratio**

$$\frac{P_i - P_{wf}}{m} \left[\log \frac{Kt}{\phi u c r_w^2} - 3.2275 \right]$$

7. **Productivity Index**

$$P. I. = \frac{q_a}{P_i - P_{wf}}$$

8. **Productivity Index Damage Removed**

$$\frac{qt}{P_i - P_{wf}} = P. I. a \times D. R.$$

9. **Radius of Investigation**

$$b = 0.029 \sqrt{\frac{Kt}{\phi u c}}$$

10. **Depletion Factor %**

$$\frac{ISIP - FSIP}{ISIP} \times 100$$

B. Gas Calculations

- Transmissibility**
$$\frac{Kh}{u} = \frac{1637 T z q_{sc}}{Mg}$$
- Capacity**
$$\frac{Kh}{u} \times u = Kh$$
- Permeability**
$$\frac{Kh}{h} = K$$

4. **Apparent Skin Factor**

$$S = 1.151 \left[\frac{P_i^2 - P_{wf}^2}{Mg} \cdot \log \left(\frac{Kt}{\phi u c r_w^2} \right) + 3.2275 \right]$$

5. **Pressure Drop Due to Skin**

$$\Delta P_{skin} = P_i - P_{wf} = \sqrt{(P_{wf}^2) + 0.869 Mg S}$$

6. **Damage Ratio**

$$\frac{P_i^2 - P_{wf}^2}{Mg} \left[\log \frac{Kt}{\phi u c r_w^2} - 3.2275 \right]$$

7. **Absolute Open Flow**

$$Mg \left[\log \frac{(P_i^2) (Kh)}{\phi u c r_w^2 - 3.2275 + .869s} \right]$$

8. **AOF Damage removed**

$$AOF \times DR$$

10. **Radius of Investigation**

$$b = 0.029 \sqrt{\frac{Kt}{\phi u c}}$$

9. **Estimated Stabilized AOF**

$$\frac{(P_i^2) (Kh)}{3263 u z t \left[\log \left(\frac{.472 r_e}{r_w} \right) + \frac{s}{2.303} \right]}$$

11. **Depletion %**

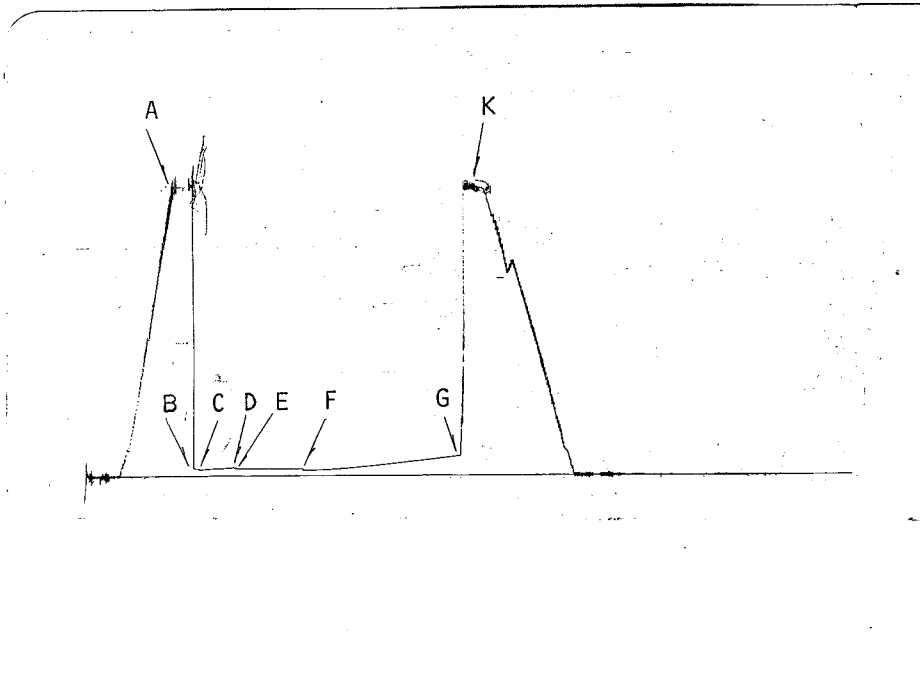
$$\frac{ISIP - FSIP}{ISIP} \times 100$$

BAKER SERVICE TOOLS

Phone (303) 573-8027

1616 Glenarm — Suite 1350
Denver, CO 80202

Contractor <u>Exeter Drilling</u>	Surface Choke <u>Bubble Hose</u>	Mud Type <u>101317</u>
Rig No. <u>68</u>	Bottom Choke <u>3/4"</u>	Weight <u>9.2</u>
Spot <u>SE/SW</u>	Hole Size <u>7 7/8"</u>	Viscosity <u>38</u>
Sec. <u>29</u>	Core Hole Size <u>--</u>	Water Loss <u>15.0</u>
Twp. <u>36 S</u>	DP Size & Wt. <u>4 1/2" 16.60</u>	Filter Cake <u>--</u>
Rng. <u>23 E</u>	Wt. Pipe <u>None</u>	Resistivity <u>.7 @ 70 °F</u>
Field <u>--</u>	I.D. of DC <u>2 1/4"</u>	<u>8,498</u> Ppm. NaCl
County <u>San Juan</u>	Length of DC <u>--</u>	B.H.T. <u>140</u> °F
State <u>Utah</u>	Total Depth <u>6470'</u>	Co. Rep. <u>--</u>
Elevation <u>6012' KB</u>	Type Test <u>Conventional</u>	Tester <u>Hector J. DeLeon</u>
Formation <u>Not Reported</u>	Interval <u>6330'- 6470'</u>	Baker Dist. <u>Farmington NM</u>



	REPORTED	CORRECTED	
Opened Tool @	--		hrs.
Flow No. 1	15	10	min.
Shut-In No. 1	60	62	min.
Flow No. 2	120	123	min.
Shut-In No. 2	285	281	min.
Flow No. 3	None Taken		min.
Shut-In No. 3	"	"	min.

Recorder Type <u>Kuster K-3</u>
No. <u>7661</u> Cap. <u>4900</u> psi
Depth <u>6307</u> feet
Inside <u>X</u> Clock
Outside Range <u>24</u> hrs.

Initial Hydrostatic	A	3071.0
Final Hydrostatic	K	3063.2
Initial Flow	B	103.6
Final Initial Flow	C	97.2
Initial Shut-In	D	114.7
Second Initial Flow	E	104.0
Second Final Flow	F	108.3
Second Shut-In	G	258.2
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-In	J	

Pipe Recovery: 30' Gas cut mud = 0.15 bbl.

Resistivity: .5 @ 70°F = 12,185 ppm NaCl., 7,407 ppm Cl.

1st Flow: Tool opened with a 1" blow, increased to 5" in 5 minutes and to 6" at end of flow period.

2nd Flow: Tool opened with a weak blow, increased to 2 1/2" in 5 minutes; decreased to 1 3/4" in 20 minutes, 1" in 30 minutes, 1/2" and remained thru flow period.

RECEIVED

OCT 13 1987

DIVISION OF OIL
GAS & MINING

Operator
Ticket No.

10/1/87
79978
SAMEBAN OIL CORP.

Well Name & No.
Location
County, State

RECAPTURE FEDERAL #29-34
SE/SW S-29 T-36S R-23E
SAN JUAN COUNTY, UT

DST No.
Interval
Formation

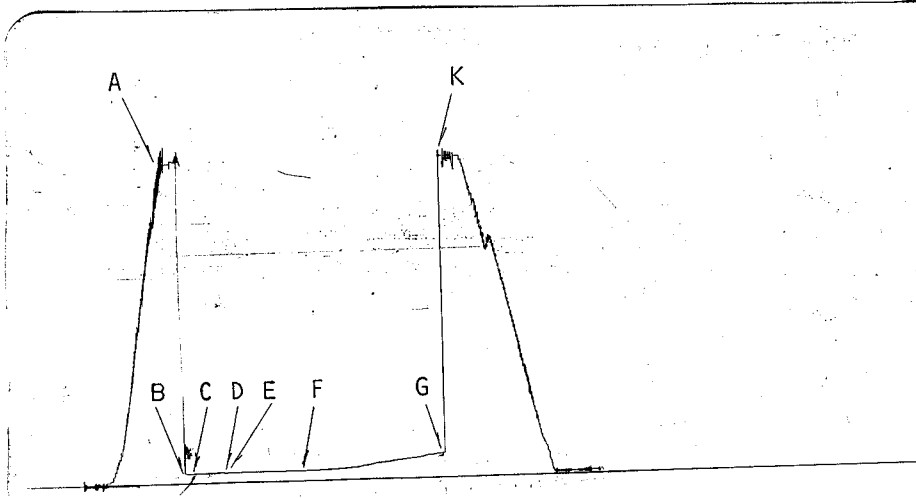
2
6330' - 6470'
NOT REPORTED

BAKER SERVICE TOOLS

Samedan Oil Corp.
Operator

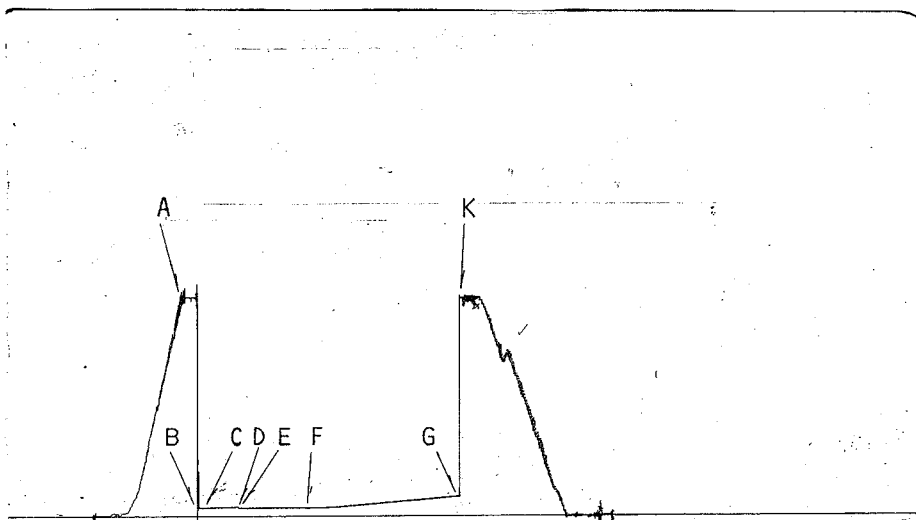
Recapture Federal #29-34
Well Name and No.

2
DST No.



Recorder Type Kuster K-3
No. 24645 Cap. 4450 psi
Depth 6370 feet
Inside _____ Clock _____
Outside X Range 12 hrs.

Initial Hydrostatic	A	<u>3108.7</u>
Final Hydrostatic	K	<u>3102.6</u>
Initial Flow	B	<u>109.9</u>
Final Initial Flow	C	<u>120.0</u>
Initial Shut-In	D	<u>121.1</u>
Second Initial Flow	E	<u>116.6</u>
Second Final Flow	F	<u>131.9</u>
Second Shut-In	G	<u>277.5</u>
Third Initial Flow	H	_____
Third Final Flow	I	_____
Third Shut-In	J	_____



Recorder Type Kuster K-3
No. 24519 Cap. 6650 psi
Depth 6470 feet
Inside _____ Clock _____
Outside X Range 24 hrs.

Initial Hydrostatic	A	<u>3139.5</u>
Final Hydrostatic	K	<u>3132.6</u>
Initial Flow	B	<u>125.5</u>
Final Initial Flow	C	<u>126.6</u>
Initial Shut-In	D	<u>140.5</u>
Second Initial Flow	E	<u>122.2</u>
Second Final Flow	F	<u>126.6</u>
Second Shut-In	G	<u>303.5</u>
Third Initial Flow	H	_____
Third Final Flow	I	_____
Third Shut-In	J	_____

BAKER SERVICE TOOLS

SAMPLER REPORT

Company Samedan Oil Corp. Date 10/1/87
Well Name & No. Recapture Federal #29-34 Ticket No. 79978
County San Juan State Utah
Test Interval 6330' - 6470' DST No. 2

Pressure in Sampler: 4 _____ psig

Total Volume of Sampler: 2600 _____ cc.

Total Volume of Sample: 2050 _____ cc.

Oil: 50 _____ cc.

Water: None _____ cc.

Mud: 2000 _____ cc.

Gas: None _____ cu. ft.

Other: None _____

Sample R W: .5 @ 70°F - .26 @ Res Temp = 12,185 ppm NaCl., 7,407 ppm Cl.

Resistivity

Make Up Water _____ @ _____ °F of Chloride Content _____ ppm.

Mud Pit Sample .7 @ 70 °F of Chloride Content 8,498 ppm.

Gas/Oil Ratio _____ Gravity _____ °API @ _____ °F

Where was sample drained On location.

Remarks: _____

BAKER

SERVICE TOOLS

Samedan Oil Corp.
Operator

Recapture Federal #29-34
Well Name and No.

2
DST No.

RECORDER NO. 7661 DEPTH 6307 FT.

INITIAL FLOW

<u>DT(MIN)</u>	<u>PRESSURE(P SIG)</u>
0	103.6
5	97.2
10	97.2

RECORDER NO. 7661 DEPTH 6307 FT.

FINAL FLOW

<u>DT(MIN)</u>	<u>PRESSURE(P SIG)</u>
0	104.0
10	101.1
20	102.1
30	103.6
40	103.8
50	104.6
60	104.6
70	105.6
80	105.6
90	105.6
100	105.6
110	106.7
120	107.5
123	108.3

BAKER

SERVICE TOOLS

Samedan Oil Corp.
Operator

Recapture Federal #29-34
Well Name and No.

2
DST No.

RECORDER NO. 7661 DEPTH 6307 FT.

INITIAL SHUT-IN

INITIAL FLOW TIME: T = 10 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(P SIG)	DP(P SIG)
0		97.2	0.0
1	1.041	83.1	-14.1
2	.778	84.1	-13.0
3	.637	85.8	-11.4
4	.544	86.8	-10.3
5	.477	87.9	-9.3
6	.426	87.9	-9.3
7	.385	88.5	-8.7
8	.352	89.5	-7.7
9	.325	90.1	-7.0
10	.301	90.3	-6.8
12	.263	91.4	-5.8
14	.234	92.6	-4.5
16	.211	93.9	-3.3
18	.192	94.5	-2.7
20	.176	95.5	-1.7
22	.163	96.7	-.4
24	.151	97.4	.2
26	.141	98.2	1.0
28	.133	99.6	2.5
30	.125	100.7	3.5
35	.109	101.7	4.5
40	.097	102.3	5.2
45	.087	104.0	6.8
50	.079	106.7	9.5
55	.073	109.2	12.0
60	.067	112.5	15.3
62	.065	114.7	17.6

EXTRAPOLATED PRESSURE: INDETERMINATE

BAKER

SERVICE TOOLS

Samedan Oil Corp.

Operator

Recapture Federal #29-34

Well Name and No.

2

DST No.

RECORDER NO. 7661 DEPTH 6307 FT.

FINAL SHUT-IN

TOTAL FLOW TIME: T = 133 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(P SIG)	DP(P SIG)
0		108.3	0.0
1	2.127	89.1	-19.2
2	1.829	89.7	-18.6
3	1.656	90.3	-18.0
4	1.535	91.0	-17.4
5	1.441	91.2	-17.2
6	1.365	91.4	-17.0
7	1.301	92.0	-16.3
8	1.246	92.2	-16.1
9	1.198	92.2	-16.1
10	1.155	92.2	-16.1
12	1.082	92.2	-16.1
14	1.021	92.2	-16.1
16	.969	92.2	-16.1
18	.924	92.2	-16.1
20	.884	92.4	-15.9
22	.848	93.2	-15.1
24	.816	94.3	-14.1
26	.786	95.1	-13.2
28	.760	95.7	-12.6
30	.735	95.7	-12.6
40	.636	98.4	-9.9
40	.636	98.4	-9.9
50	.563	102.9	-5.4
60	.507	107.5	-.8
70	.462	113.5	5.2
80	.425	117.0	8.7
90	.394	123.4	15.1
100	.367	130.4	22.1
120	.324	142.8	34.5
140	.290	155.4	47.1
160	.263	170.3	61.9
180	.240	184.7	76.4
200	.221	198.5	90.2
220	.205	212.9	104.6
240	.191	228.4	120.0
260	.179	243.2	134.8

BAKER

SERVICE TOOLS

Samedan Oil Corp.
Operator

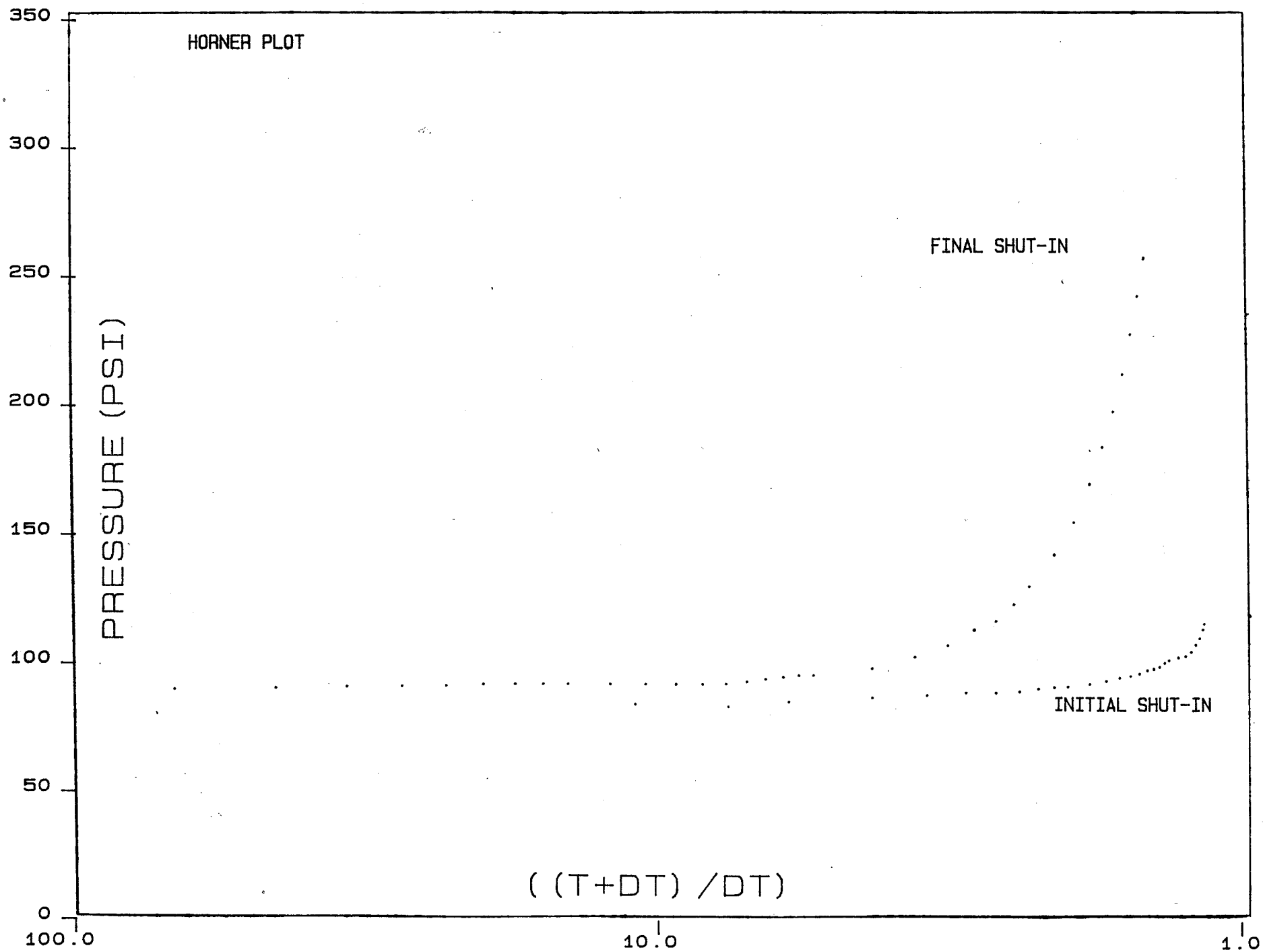
Recapture Federal #29-34
Well Name and No.

2
DST No.

FINAL SHUT-IN CONTINUED

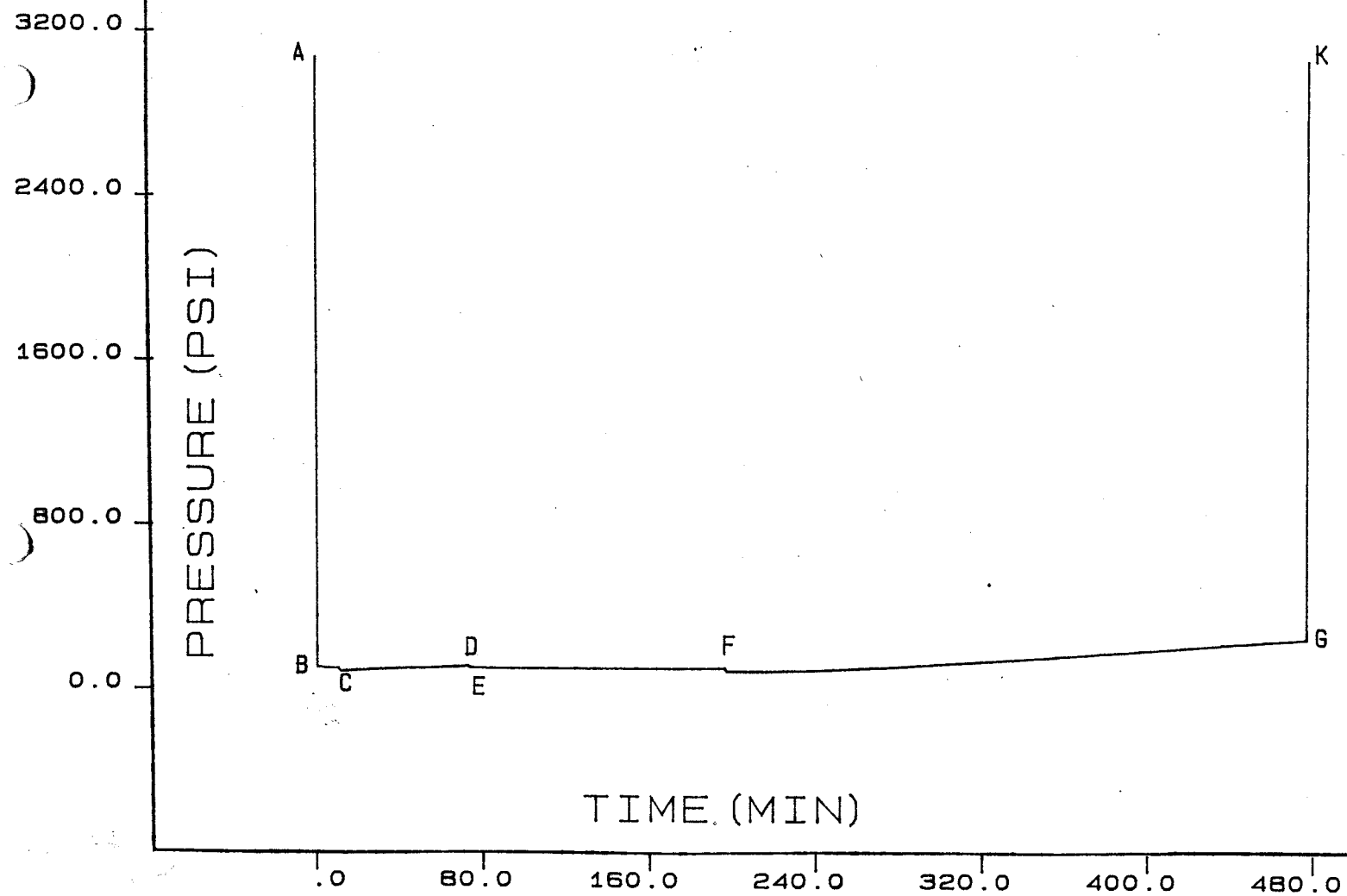
<u>DT(MIN)</u>	<u>LOG((T+DT)/DT)</u>	<u>PRESSURE(P SIG)</u>	<u>DP(P SIG)</u>
280	.169	257.6	149.2
281	.168	258.2	149.9

EXTRAPOLATED PRESSURE: INDETERMINATE



GAUGE NO. 7661 @ 6307 FT.

ANALOG CHART



BAKER SERVICE TOOLS

DISTRIBUTION OF FINAL REPORTS

Samedan Oil Corp.
Operator

Recapture Federal #29-34
Well Name and No.

SAMEDAN OIL CORP. 5
1616 GLENARM PL. SUITE 2550
DENVER CO 80202

UNITED STATES DEPT. OF INTERIOR 3
BUREAU OF LAND MGNT.
BOX 970
MOAB UT 84532

STATE OF UTAH 2
355 WEST NORTH TEMPLE
3 TRIAD CENTER SUITE 350
SALT LAKE CITY UT 84180-1203

TRANSCO 2
ATTN MR. BRUCE WILEY
1700 LINCOLN #2100
DENVER CO 80203

BAKER SERVICE TOOLS

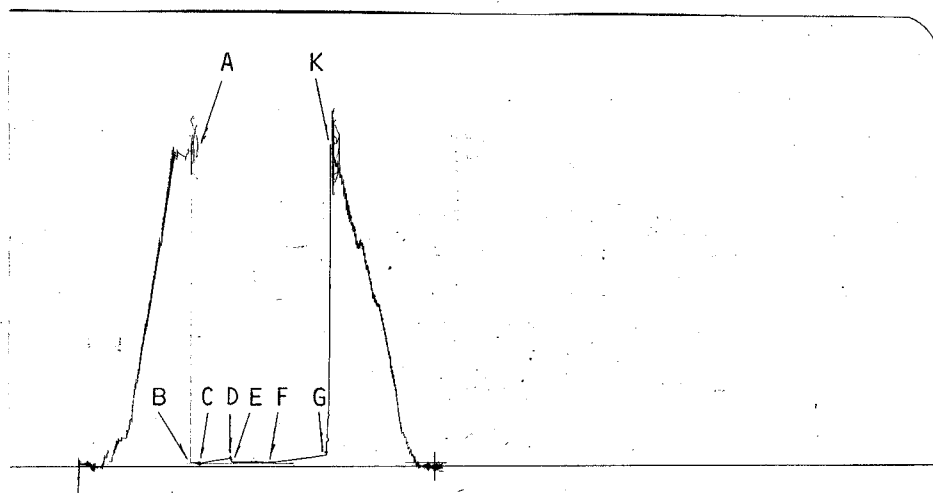
Phone (303) 573-8027

1616 Glenarm — Suite 1350
Denver, CO 80202

Contractor Not Reported
Rig No. --
Spot SE/SW
Sec. 29
Twp. 36 S
Rng. 23 E
Field --
County San Juan
State Utah
Elevation 6012' KB
Formation Ismay

Surface Choke Bubble Hose
Bottom Choke 3/4
Hole Size 7 7/8"
Core Hole Size --
DP Size & Wt. 4 1/2" 16.60
Wt. Pipe None
I.D. of DC 2 1/4"
Length of DC 565'
Total Depth 6390'
Type Test Conventional
Interval 6290' - 6390'

Mud Type --
Weight 9.2
Viscosity 38
Water Loss 15.0
Filter Cake --
Resistivity .7 @ 80 °F
7,458 Ppm. NaCl
B.H.T. 140 °F
Co. Rep. Randall Shelton
Tester Harry Schmidt
Baker Dist. Farmington NM



REPORTED		CORRECTED	
Opened Tool @	10:00	hrs.	
Flow No. 1	15	min.	
Shut-In No. 1	60	min.	
Flow No. 2	60	min.	
Shut-In No. 2	120	min.	
Flow No. 3	None Taken	min.	
Shut-In No. 3	" "	min.	

Recorder Type Kuster K-3
No. 24645 Cap. 4450 psi
Depth 6263 feet
Inside X Clock
Outside Range 24 hrs.

Initial Hydrostatic	A	3002.7
Final Hydrostatic	K	2987.0
Initial Flow	B	41.0
Final Initial Flow	C	38.2
Initial Shut-In	D	75.9
Second Initial Flow	E	45.2
Second Final Flow	F	43.8
Second Shut-In	G	109.5
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-In	J	

Pipe Recovery: 180' Gas above fluid
30' Mud = 0.15 bbl.

Resistivity: .8 @ 85°F - .50 @ Res Temp = 6,097 ppm NaCl., 3,706 ppm Cl.

1st Flow: Tool opened with a fair blow, increased to a good blow at end of flow period.

2nd Flow: Tool opened with a fair blow, increased to 4" and remained thru flow period.

Remarks: The charts have not been time/pressure incremented as both shut-in curves have insufficient character to determine reliable extrapolated reservoir pressures and indicate virtually no effective permeability in the formation within the tested interval.

Operator
Ticket No.
Date

SAMEDAN OIL CORP.
2758
9/30/87

Well Name & No.
Location
County, State

RECAPTURE FEDERAL #29-34
SE/SW S-29 T-36S R-23E
SAN JUAN COUNTY, UT

DST No.
Interval
Formation

NOT REPORTED
6290' - 6390'
ISMAY

BAKER SERVICE TOOLS

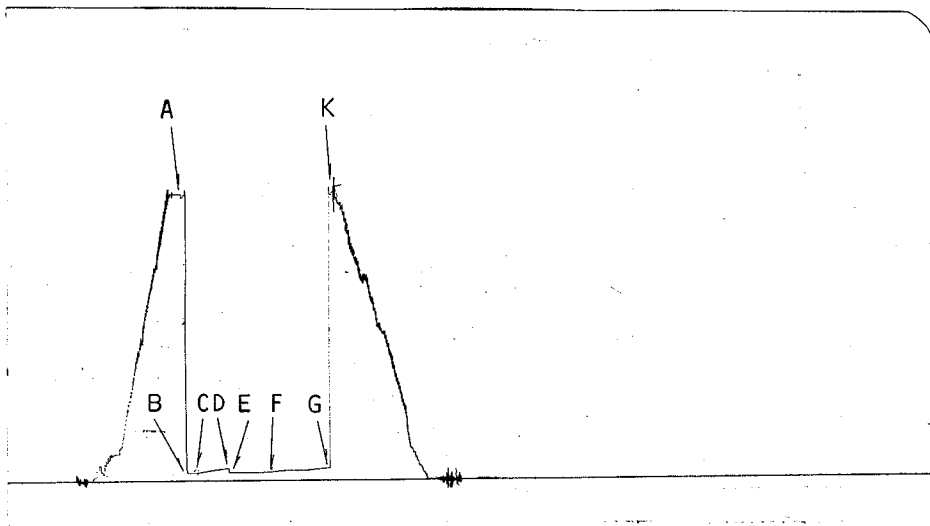
Samedan Oil Corp.

Operator

Recapture Federal #29-34

Well Name and No.

DST No.



Recorder Type Kuster K-3
No. 7661 Cap. 4900 psi
Depth 6305 feet
Inside _____ Clock _____
Outside X Range 24 hrs.

Initial Hydrostatic	A	<u>3044.0</u>
Final Hydrostatic	K	<u>3009.7</u>
Initial Flow	B	<u>79.0</u>
Final Initial Flow	C	<u>78.2</u>
Initial Shut-In	D	<u>125.0</u>
Second Initial Flow	E	<u>84.0</u>
Second Final Flow	F	<u>82.6</u>
Second Shut-In	G	<u>128.1</u>
Third Initial Flow	H	_____
Third Final Flow	I	_____
Third Shut-In	J	_____

Recorder Type _____
No. _____ Cap. _____ psi
Depth _____ feet
Inside _____ Clock _____
Outside _____ Range _____ hrs.

Initial Hydrostatic	A	_____
Final Hydrostatic	K	_____
Initial Flow	B	_____
Final Initial Flow	C	_____
Initial Shut-In	D	_____
Second Initial Flow	E	_____
Second Final Flow	F	_____
Second Shut-In	G	_____
Third Initial Flow	H	_____
Third Final Flow	I	_____
Third Shut-In	J	_____

BAKER SERVICE TOOLS

SAMPLER REPORT

Company Samedan Oil Corp. Date 9/30/87
Well Name & No. Recapture Federal #29-34 Ticket No. 2758
County San Juan State Utah
Test Interval 6290' - 6390' DST No. _____

Pressure in Sampler: 30 _____ psig

Total Volume of Sampler: 2600 _____ cc.

Total Volume of Sample: 2600 _____ cc.

Oil: None _____ cc.

Water: None _____ cc.

Mud: 2600 _____ cc.

Gas: None _____ cu. ft.

Other: None _____

Sample R W: .8 @ 85°F - .5 @ Res Temp = 6,097 ppm NaCl., 3,706 ppm Cl.

Resistivity

Make Up Water 10.0 @ 80 °F of Chloride Content 453 ppm.

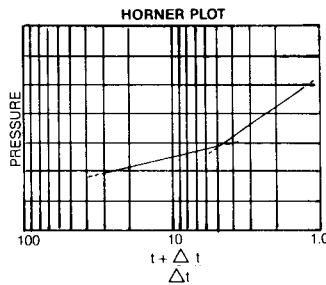
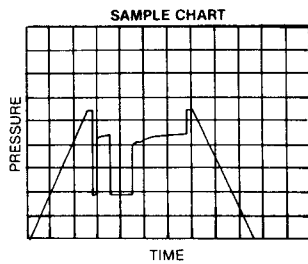
Mud Pit Sample .7 @ 80 °F of Chloride Content 7,458 ppm.

Gas/Oil Ratio _____ Gravity _____ °API @ _____ °F

Where was sample drained On location.

Remarks: _____

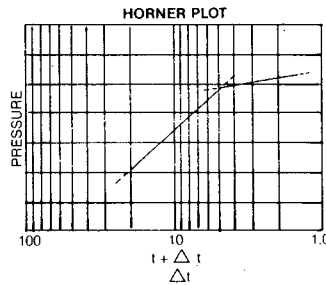
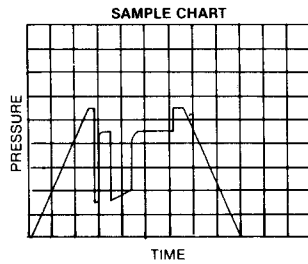
Lynes Guide to Detection of Geological Anomalies



Horner Plot Slope Breaks Upward

Possible Causes

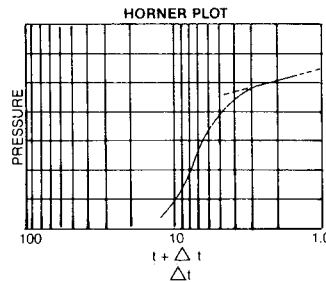
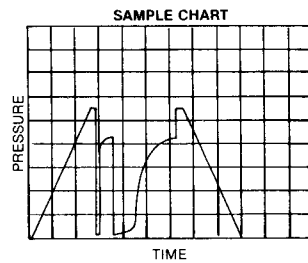
- (1) decrease in pay thickness away from the wellbore
- (2) decrease in permeability away from the wellbore
- (3) increase in viscosity of reservoir fluid (fluid contact)
- (4) barrier within the radius of investigation



Horner Plot Slope Breaks Downward

Possible Causes

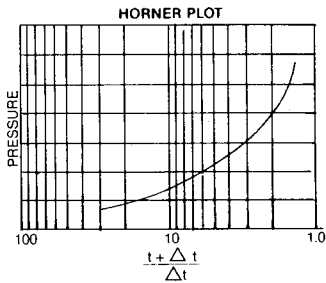
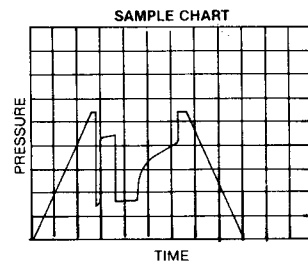
- (1) increase in pay thickness away from the wellbore
- (2) increase in permeability away from the wellbore
- (3) decrease in viscosity away from the wellbore



Early Time Deviation of Horner Plot

Possible Causes

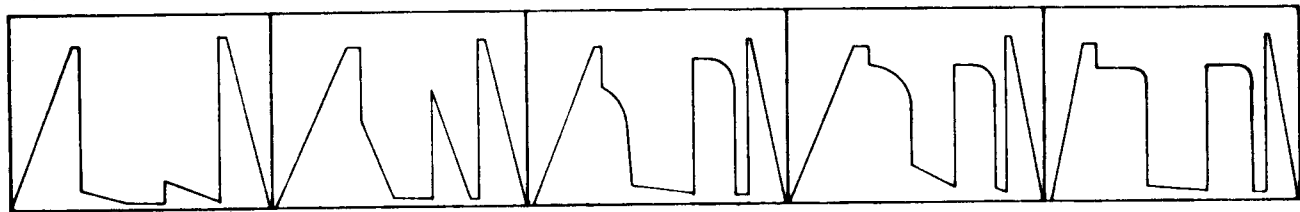
- (1) wellbore damage due to filtrate invasion, drilling solids, etc.
- (2) partial penetration of pay zone
- (3) plugging or choking of perforations (casing test only)
- (4) wellbore storage effects (low permeability gas wells)



Horner Plot Slope Continually Increasing

Possible Causes

- (1) well between two parallel boundaries (channel sand)
- (2) induced hydraulic fractures



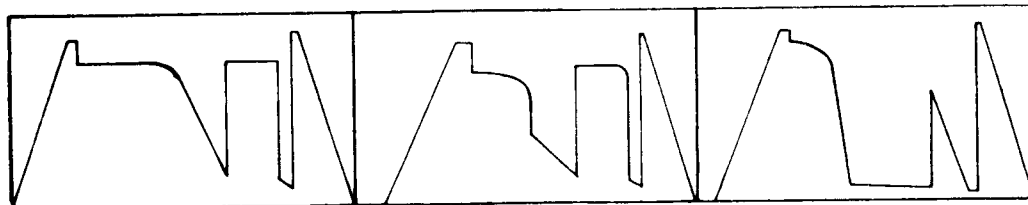
Very low permeability. Usually only mud recovered from interval tested. Virtually no permeability.

Slightly higher permeability. Again usually mud recovered.

Slightly higher permeability. Small recovery, less than 200 ft.

Average permeability. Final and initial shut-ins differ by 50 psi.

Average permeability. Strong damage effect. High shut-in pressure, low flow pressure.



Excellent permeability where final flow final shut-in pressure.

High permeability where ISIP and FSIP are within 10 psi.

Deep well bore invasion or damage. Final shut-in higher than the initial shut-in.

BAKER SERVICE TOOLS

DISTRIBUTION OF FINAL REPORTS

Samedan Oil Corp.
Operator

Recapture Federal #29-34
Well Name and No.

SAMEDAN OIL CORP. 5
1616 GLENARM PL. SUITE 2550
DENVER CO 80202

UNITED STATES DEPT.OF INTERIOR 3
BUREAU OF LAND MGNT.
BOX 970
MOAB UT 84532

STATE OF UTAH 2
355 WEST NORTH TEMPLE
3 TRIAD CENTER SUITE 350
SALT LATE CITY UT 84180-1203

TRANSCO 2
ATTN MR. BRUCE WILEY
1700 LINCOLN #2100
DENVER CO 80203

COMPANY: SAMEDAN OIL CORP UT ACCOUNT # 10185 SUSPENSE DATE: _____

WELL NAME: RECAPTURE FED
29-34

API #: 43 037 31340

SEC, TWP, RNG: 36S 23E 29

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: GARY BRUNE

CONTACT TELEPHONE NO.: 1-303-534-0677

SUBJECT: WELL NOT LISTED AS CONF.
LOGS MARKED "TIGHT HOLE"

(Use attachments if necessary)

RESULTS: GARY SAID HE THOUGHT THEY HAD REQUESTED THIS
WELL TO BE CONFIDENTIAL. / EXPLAINED THAT IT HAD
NOT BEEN TO DATE BUT WE WILL DO IT NOW. HE WILL
SEND THE COMPLETION REPORT IN A COUPLE OF DAYS.
Spoke with Gary Brune he wants only logs to be conf.
will send letter 10/26/87 JS

(Use attachments if necessary)

CONTACTED BY: VC

DATE: 10-23-87

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 3160-6
(November 1983)
(Formerly 9-329)

MONTHLY REPORT
OF
OPERATIONS

Lease No. U49986
Communitization Agreement No. _____
Field Name Wildcat
Unit Name _____
Participating Area _____
County San Juan State Utah
Operator SAMEDAN OIL CORPORATION
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of October, 19 87

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396d), regulation (43 CFR 3162.4-3), and the terms of the lease. Failure to report can result in the assessment of liquidated damages, (43 CFR 3160), penalties, shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (43 CFR 3160).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
Recapture Federal #29-34	SWSE 29	36S	23E	DRG					T.D. 6695' on 10/3/87. Plugged & Abandoned on 10/5/87

RECEIVED
OCT 20 1987
DIVISION OF
OIL, GAS & MINING

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: Gary L. Brune Address: 1616 Glenarm Place, Suite 2550, Denver, CO
Title: Gary L. Brune, Div. Production Superintendent Page _____ of _____ 80202

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE
(Other instructions on the
reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-49986

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS

(Do not use this form for proposals to drill or to deepen or plug a well to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such purposes.)

1. OIL WELL ☐ GAS WELL ☒ OTHER Dry Hole

OCT 26 1987

2. NAME OF OPERATOR

SAMEDAN OIL CORPORATION

3. ADDRESS OF OPERATOR

1616 Glenarm Place, Suite 2550, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

780' FSL 2100' FEL (SWSE)

UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Recapture Federal

9. WELL NO.

29-34

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec 29-T36S-R23E

14. PERMIT NO.

43-037-31340

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6003' GR

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

10/4/87 Well plugged and abandoned as follows:

100sx class "B" cement from 6312' to 6062'

100sx class "B" cement from 2590' to 2340'

65sx class "B" cement from 150' to surface

10/5/87 Cut off casing head. Installed dry hole marker.

Filled top of casing with 10sx cement.

Welded plate over casing stub.

Well plugged and abandoned.

18. I hereby certify that the foregoing is true and correct

SIGNED

Gary L. Brune

TITLE Div. Production Superintendent DATE 10/23/87

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

*See Instructions on Reverse Side

DATE: 10-26-87

BY: [Signature]

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 3160-6
(November 1983)
(Formerly 9-329)

MONTHLY REPORT
OF
OPERATIONS

Lease No. U49986
Communitization Agreement No. _____
Field Name Wildcat
Unit Name _____
Participating Area _____
County San Juan State Utah
Operator SAMEDAN OIL CORPORATION
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of September, 19 87

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396d), regulation (43 CFR 3162.4-3), and the terms of the lease. Failure to report can result in the assessment of liquidated damages, (43 CFR 3160), penalties, shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (43 CFR 3160).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
Recapture Federal 29-34	SWSE 29	36S	23E	DRG					Spud 9/19/87 Drlg @ 6470' on 10/1/87.

RECEIVED
OCT 20 1987

DIVISION OF
OIL, GAS & MINING

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: Gary L. Brune Address: 1616 Glenarm Place, Suite 2550, Denver, CO
Title: Gary L. Brune, Div. Production Superintendent Page _____ of _____ 80202

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-49986

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

102811

8. FARM OR LEASE NAME

Recapture Federal

9. WELL NO.

29-34

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec 29, T36S-R23E

12. COUNTY OR
PARISH

San Juan

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:

OIL WELL ☐ GAS WELL ☐ DRY ☒

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR

SAMEDAN OIL CORPORATION

3. ADDRESS OF OPERATOR

1616 Glenarm Place, Suite 2550, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 780' FSL and 2100' FEL (SWSE)

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO.

43-037-31340

DATE ISSUED

9/4/87

15. DATE SPUDDED

9/19/87

16. DATE T.D. REACHED

10/3/87

17. DATE COMPL. (Ready to prod.)

PSA 10-4-87

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

6003' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

6695'

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL.,
HOW MANY*

23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0-6695

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

None

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DLG/GR/CAL/SP, FDC/CNL, BHC Sonic, Dipmeter

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	120'	17 1/2	CMT'D to Surface w/100sx	0
8 5/8	24	2530'	11	CMT'D to Surface w/900sx	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
							PSA	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
			→					
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
		→						

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

ABANDONMENT REPORT

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Gary L. Brune

TITLE Div. Production Superintendent DATE 10/23/87

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
Upper Ismay	6290	6390	DST #1			
			15-60-60-120			
			IF 41-38 psi			
			ISI 76 psi			
			FF 45-44 psi			
Upper Ismay	6330	6470	FSI 110 psi	Hermosa	5244	+768
			REC 30' Drlg Mud	Ismay	6300	-288
			SAMPLER 2600cc Mud	Desert Creek	6540	-528
				Akah	6652	-640
			DST #2			
			15-60-120-285			
			IF 104-97 psi			
			ISI 115 psi			
			FF 104-108 psi			
			FSI 258 psi			
			REC 30' Drlg Mud			
			SAMPLER 50cc Oil 2000cc Mud			

FAN APP'D

4301530174
Amoco #5, NENE 34-17S-11E 5-10-91
4303731453
Inula 2-17, SESW 17-31S-23E 5-13-91
4303731465
COG C 1-3536-21, NWSW 35-36S-21E 5-13-91
4303731340
Recapture 29-34, SWSE 29-36S-23E 5-13-91
4303730499
Bug 1, NESE 12-36S-25E 5-13-91
4303731184
Cedar Point F-13-126, NWSW 12-36S-25E 5-13-91
4303730735
Bug 25, NENE 18-36S-26E 5-10-91
4303731322
Inula 1, NESE 13-35S-23E 5-13-91
4303731388
Manahan 1-5, NUNE 5-37S-24E 5-13-91

JLT List from BLM showing final
abandonment notice dates.

DT5

5-28-91